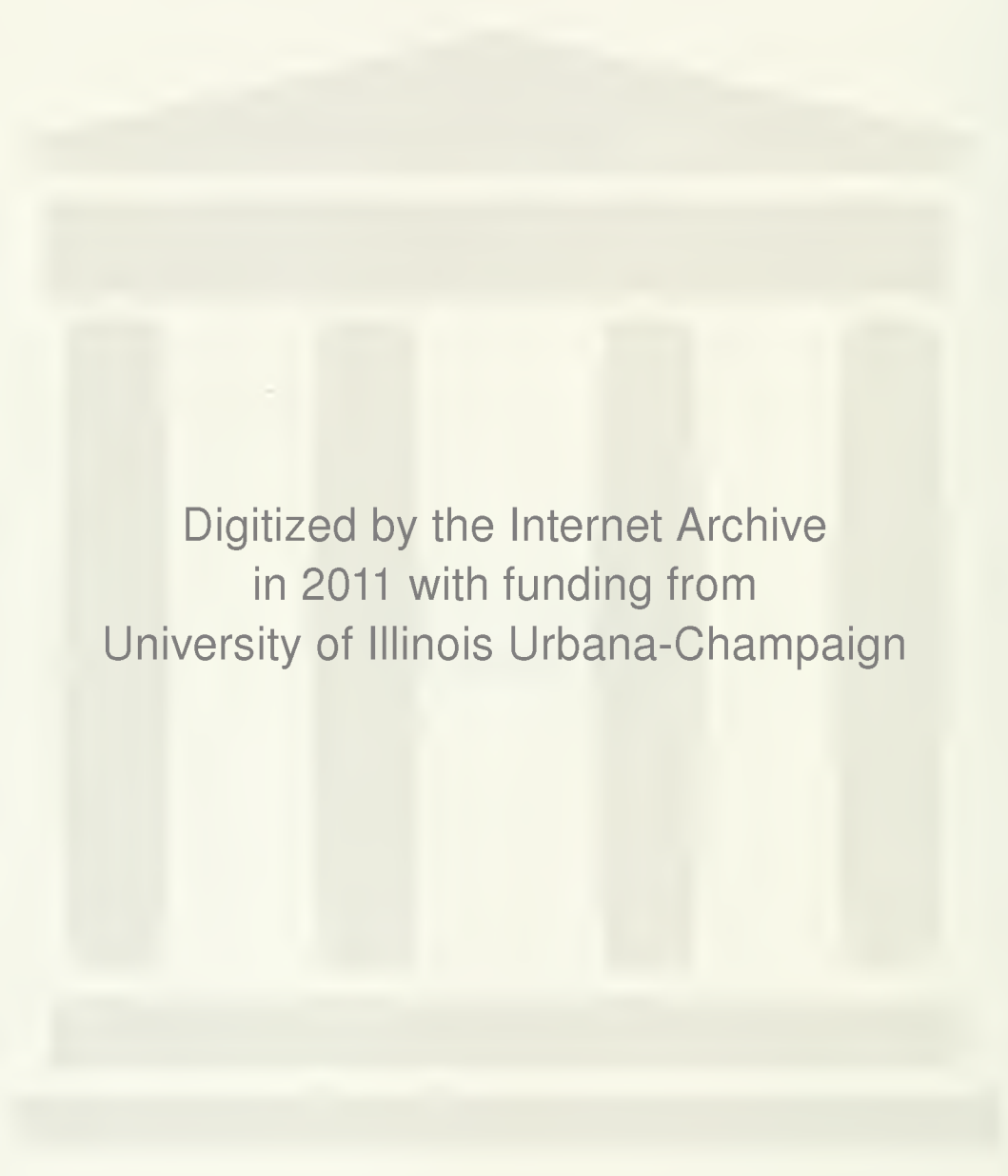


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International Agriculture Newsletter

College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

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1982

August 1981 No. 51

INTERNATIONAL ACTIVITIES

University of Illinois
at Urbana-Champaign

Carl N. Hittle, INTSOY Agronomy, will become Project Supervisor on the IADS (International Agricultural Development Service) Integrated Cereals Project in Nepal, beginning in September. In his UIUC Professor emeritus status, he will continue his dedicated service in international agricultural development.

Dr. Hittle recently donated most of his professional library to the library of the newly created Post Graduate Institute of Agriculture (PGIA), University of Peradeniya, Sri Lanka.

James E. Corbin, Animal Science, was in Brazil from June 12 to 24 to discuss pet food nutrition research with University of Campinas researchers, kennel groups in Sao Paulo and Rio de Janeiro, and pet owners. His trip was sponsored by the Brazilian pet industry and feed manufacturers.

Marlowe D. Thorne, Agronomy, reviewed the MUCIA (Midwest Universities Consortium for International Activities) program at the Institute of Agriculture and Animal Sciences, Tribhuvan University, Rampur, Nepal, from July 6 to 29.

Sam H. Johnson, Agricultural Economics, will present a paper entitled "A Simulation Approach to Economic Evaluation of Modifications in Pakistan's Irrigation System Operating Procedures" at the American Agricultural Economics Association meetings, August 1 to 4, Utah State University. He will also discuss research proj-

ects in Burma and Thailand with staff in the Department of Economics, Colorado State University.

Participating in the Second International Maize Virus Disease Colloquium and Workshop, Ohio Agricultural Research and Development Center (OARDC), Wooster, Ohio, August 2 to 6, will be: Richard E. Ford and Jacqueline Fletcher, Plant Pathology, Catherine E. Eastman, Economic Entomology, and Michael E. Irwin, Agricultural Entomology.

Lloyd E. Davis, Clinical Pharmacology, is the only veterinarian among 30 pharmacologists visiting the People's Republic of China in September. The delegation was formed at the invitation of the China Pharmaceutical Association. The team will meet with government leaders, physicians, and professional workers involved in the research, development, manufacture, regulation, and distribution of pharmaceuticals. They will also visit hospitals and clinics, evaluate Chinese pharmacologic techniques, and observe drug manufacturing and research.

Harold E. Kauffman, INTSOY Director, discussed INTSOY activities with staff at the International Development Research Centre (IDRC), Ottawa, Canada, on July 23.

William N. Thompson and Earl D. Kellogg, Office of International Agriculture, and Sam H. Johnson, Agricultural Economics, discussed how universities can support USAID's farming systems work in developing countries

with Agency for International Development and Board for International Food and Agriculture Development (BIFAD) staff, Washington, D.C., July 22 and 23.

John T. Scott, Jr., Agricultural Economics, will discuss factor analysis with D. N. Lawley, University of Edinburgh, Scotland, in late August.

Jean M. Due, Agricultural Economics, will participate in the International Association of Agricultural Economists meeting in Jakarta, Indonesia, August 24 to September 2.

Dr. Due will then conduct research in Zimbabwe, Zambia, and Tanzania until early December on allocation of credit to small farm families and on women in development. While in Tanzania, Dr. Due will also work on the Bean/Cowpea Collaborative Research Support Program (CRSP).

VISITING RESEARCHERS

Motoki Ikeda, Laboratory of Plant Nutrition, Kyushu University, will be working with Richard H. Hagemen, Agronomy, from July 1982 to February 1983. Sponsored by a fellowship from the Japanese Society for the Promotion of Sciences, he will investigate nitrogen metabolism in the corn leaf during grain development, and photosynthesis and photorespiration in rice and corn. Dr. Ikeda can be contacted at S-334 Turner Hall, 333-1278.

Kenji Horiguchi, Associate Professor of Agricultural Economics at Tokyo University of Agriculture, Japan, will spend his sabbatical year (September 1982 to August 1983) in the Agricultural Economics Department. He will study land utilization and land tenure in U.S. agriculture, and international and domestic distribution of primary U.S. agricultural products.

Neima A. Hassan, Egypt, is a visiting

researcher in Food Science who is working with Fred A. Kummerow until March 1984 on fats and oils problems. Dr. Hassan can be reached at the Burnsides Research Laboratory, 333-1874.

Paulo de Morres Barros, University of Sao Paulo, Brazil, is a visiting researcher in Veterinary Medicine's Ophthalmology Section in July and August. Contact him c/o Ophthalmology Section, Small Animal Clinic, 333-5300.

VISITORS RECENTLY ON CAMPUS

Mujahid Al-Fayadh, Faculty of Food Science, University of Baghdad, Iraq, visited Food Science and discussed the ripening of buffalo milk cheddar cheese with Robert M. Whitney, June 24 and 25 and July 2 to 6.

Davindar S. Wadhwa, College of Agricultural Engineering, Punjab Agricultural University, Ludhiana, India, discussed UIUC research in soil mechanics with John C. Siemens, Agricultural Engineering, on July 1 and 2. Dr. Wadhwa's visit was part of a UNESCO fellowship to the USDA National Tillage Machinery Laboratory, Auburn, Alabama.

Forty young farmers, alumni of Landwirtschaftskammer Schleswig-Holstein in Rendsburg, Germany, visited the College of Agriculture on July 6. A program on the role and functions of the College of Agriculture was prepared for them.

M. P. Rajan, Managing Director, and A. K. Banerjee, Director of the Board of the Madhya Pradesh Oilseed Grower's Federation, India, visited UIUC on July 8. They met with Dean Orville G. Bentley, and staff in Agronomy, Agricultural Engineering, Food Science, INTSOY, and International Agriculture. Their trip was sponsored by the Cooperative League of the U.S.A. (CLUSA).

Maheswar Prasad Bharati, soybean agronomist with the Department of Agriculture, Kathmandu, Nepal, and currently a graduate student in agronomy at Iowa State University, met with INTSOY, Agronomy, Plant Pathology, and Food Science staff from July 19 to 21.

Among the recent visitors to Dairy Science were: R. D. Politiek, Netherlands, July 21 and 22, to meet with the genetics division; James F. D. Greenhalgh, Chairman of Animal Production and Health Group, University of Aberdeen, Scotland, on July 19; J. M. Forbes, Department of Animal Physiology and Nutrition, University of Leeds, England, July 9, who presented a seminar on the control of food intake in ruminants; Constantino della Bruna, microbiologist with Farmitalia, Italy, to discuss rumen and gastrointestinal microbiology with Marvin P. Bryant and R. S. Wolfe, Microbiology, June 22; and Mr. and Mrs. Rob Little, Carlisle, Scotland, July 8, who met with W. Reginald Gomes and Michael F. Hutjens. They were accompanied by Rich Vetter, Division of Research, Harvestore Systems.

Malisa Tasic, maize virologist, and Duska Tasic, entomologist, University of Belgrade, Yugoslavia, visited Plant Pathology and Agricultural Entomology from July 23 to 31.

James F. Ragin, team leader on the ZAMARE (Zambia Agricultural Research and Extension) Project, was at UIUC from July 6 to 16 to confer with staff before traveling to Zambia to begin his long-term assignment. The remainder of the team will begin their assignments in August and September: Ronald G. Dedert, UIUC, Research Liaison Extension Officer, stationed at Kabwe; Paul T. Gibson, Southern Illinois University-Carbondale, Maize Breeder, stationed at Mt. Makulu; Alfred G. Harms, UIUC, Farming Systems Economist, stationed at Kabwe; Robert E. Hudgens, Southern Illinois University-Carbondale,

Agronomist, stationed at Kabwe; Jagmohan Joshi, University of Maryland-Eastern Shore, Soybean Breeder, stationed at Magoye; and William W. Roath, USDA, Sunflower Agronomist, stationed at Mt. Makulu. They can be contacted in care of the ZAMARE Project, P. O. Box 50955, Lusaka, Zambia.

Putteho M. Ngonda, Ambassador of the Republic of Zambia to the U.S., and Tens Kapoma, First Secretary, visited UIUC on July 23 and 24 to discuss the Zambia Agricultural Research and Extension Project (ZAMARE).

VISITORS COMING TO CAMPUS

Nabih Ibrahim Ashour, National Research Centre, Cairo, Egypt, will visit the College of Agriculture on August 5 and 6. He is sponsored by the Applied Science and Technology Research Program, a joint program on the U.S. National Academy of Science and the Egyptian Academy of Scientific Research and Technology. Dr. Ashour will study the application of new advances in plant physiology and photosynthesis to field production of corn and soybeans.

Wang Bin Ru, Wu He Li, Wang Chinling, and Hong Liang, Heilongjiang Academy of Agricultural Sciences, Harbin, People's Republic of China, will visit UIUC from August 23 to 25. Sponsored by an FAO study tour program, they will discuss soybean production and processing with USDA and INTSOY staff.

Samir Mohamed Younis, Agricultural Engineering Department, University of Alexandria, Egypt, and Ahmed Farid El-Sahrigui, Agricultural Mechanization Project Director, Egyptian Ministry of Agriculture, will visit UIUC on August 26 and 27 during a three-week U.S. tour to observe agricultural research methodology. Their program was arranged through USDA/OICD (Office of International Cooperation and Development).

A team of ten South Africans will discuss corn and soybean research and extension with College of Agriculture staff on August 12. They will be accompanied by a representative of John Deere.

Two Israeli entomologists will visit UIUC during August: David Rosen, Hebrew University, August 13, to discuss biosystematics of Chalcidoids, and biological control of citrus pests; and Benny Roccah, Department of Plant Virology, Volcani Institute, in late August, to discuss epidemiology of nonpersistent viruses. Their

schedules are being arranged by Michael E. Irwin, 172 Natural Resources Bldg., 333-6659.

Jan van Eldik and Jack Wixley, agricultural economists with the South African Sugar Cane Grower's Association, Durban, will study computerized financial record systems for commercial farmers, and cost accounting methodology for determining cost of producing crops on commercial farms, September 7 to 13, in Agricultural Economics. Their schedule is being arranged by Allan G. Mueller, 450 Mumford Hall, 333-0753.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 W. Gregory Dr., University of Illinois at Urbana-Champaign 61801; Bonnie Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. The College of Agriculture provides equal opportunities in programs and employment.

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International Agriculture Newsletter



College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

September 1982 No. 52

INTERNATIONAL ACTIVITIES

Evelyn J. Weber, Agronomy, presented a paper in a symposium on cereal lipids at the 7th World Cereal and Bread Congress, Prague, Czechoslovakia, June 28 to July 2.

Attending the International Pig Veterinary Society Congress, Mexico, July 26 to 31, from UIUC's College of Veterinary Medicine were: R. Lennart Backstrom, Gregg W. BeVier, Borje Gustaffson, and John C. Thurmon.

Stanley E. Curtis and Temple Grandin, Animal Science, participated in the Housing and Welfare Seminar sponsored by the Commission of the European Communities, July 28 to 30, Aberdeen, Scotland. Dr. Curtis presented a paper entitled "Perception of Thermal Comfort by Farm Animals" and Ms. Grandin spoke on "Welfare Requirements for Handling Facilities." They also met with researchers at the University of Bristol and the University of Reading.

Carroll E. Goering, Agricultural Engineering, participated in the First International Symposium on Vegetable and Plant Oils as Fuel, Fargo, North Dakota, August 1 to 4.

James F. Evans, Agricultural Communications, attended a regional conference on communication education at the University of the Philippines, Los Banos, from August 9 to 13.

From mid-August to late December Dr. Evans will serve on a team to plan an undergraduate degree program

in agricultural communications at Gadjah Mada University, Indonesia.

Sam H. Johnson, Agricultural Economics, and William N. Thompson, International Agriculture, were in Chicago on August 17 to attend a meeting on farmings systems research and extension.

Earl D. Kellogg, International Agriculture, and Earl R. Swanson, Agricultural Economics, will be in St. Vincent and Barbados from August 28 to September 15 to develop plans for technical assistance in agriculture under the Midwest Universities Consortium for International Activities (MUCIA)/USAID Caribbean project.

Gordon J. Benson, Veterinary Clinical Medicine, will present a paper entitled "Diaphragmatic Function in Ponies: Effect of Halothane Anesthesia Upon Regional Blood Flow" at the First International Veterinary Anesthesia Congress, Cambridge, England, September 16 to 18.

Francisco O. Calvo and Janice M. Bahr, Animal Science, are invited participants in a symposium on reproductive biology of poultry, to be held during the 17th Poultry Science Symposium, University of Reading, England, September 15 to 17.

Gordon J. Baker, Veterinary Clinical Medicine, and Murli Manohar, Veterinary Biosciences, will attend the First International Conference on Equine Exercise Physiology, Exeter College, Oxford, England, September 22 to 25.

VISITING RESEARCHERS

Luis Angel de Uriarte, Anderson Clayton Company, Guadalajara, Mexico, was a visiting professor in Animal Science during the summer. He worked on the formulation and nutrition of pet foods with James E. Corbin.

Michael Theodorou, Grassland Research Institute, London, England, worked with Marvin P. Bryant, Dairy Science, from June through August on methanogenesis.

Huan-Wen Gao, Beijing Institute of Agricultural Mechanization, will be a visiting scholar in Agricultural Engineering through July 1983, working with Donnell R. Hunt. His research will include the study of machinery management on large Illinois farms. Mr. Gao can be contacted at 104 Agricultural Engineering Building, 333-2738.

Bernard A. Goodman, Department of Spectrochemistry, Macaulay Institute for Soil Research, Aberdeen, Scotland, will work with Joseph W. Stucki, Agronomy, and David N. Hendrickson, Chemistry, for the next year while taking his sabbatical leave at UIUC. Dr. Goodman will study the chemistry of metal ions in clay minerals and other natural systems using magnetic Mossbauer spectroscopy and electron and nuclear magnetic resonance techniques.

VISITORS RECENTLY ON CAMPUS

Marc F. Masson, Jacques M. Hallard, and Jean-Claude Mercier, Clause Seed Co., Orge, France, visited with faculty and graduate students in Horticulture and Plant Pathology on July 14.

Maurice Bichard, Director, Pig Improvement Company, England, discussed population genetics, progeny testing, and environmental management with

staff in Animal Science and Dairy Science, July 14.

Allan J. Beattie and Don Beattie, Atherton, Queensland, Australia, discussed sweet corn culture and processing with Herbert J. Hopen and David B. Dickinson, Horticulture, and Marvin P. Steinberg, Food Science, July 23.

Chris Venter, Division of Agricultural Engineering, Department of Agriculture and Fisheries, Stellenbosch, South Africa, spent July 24 to 26 at UIUC. He met with Dale H. Vanderholm, Donald L. Day, and Arthur J. Muehling, Agricultural Engineering, to discuss livestock housing and waste management systems.

Recent visitors with Marvin P. Bryant and Robert B. Hespell, Dairy Science, include Bernard Schink, University of Konstanz, West Germany, July 29 and 30, and Alan G. Williams, Research Microbiologist, Hannah Research Institute, Ayr, Scotland, August 16 to 18.

Akke J. van der Zijpp, Department of Animal Husbandry, Agricultural University, Wageningen, the Netherlands, presented a seminar on "Genetic Control of Immune Responsiveness in the Chicken," August 2. Dr. van der Zijpp is Secretary of the International Society for Animal Blood Group Research (ISABR), and she conferred with Ben A. Rasmusen, Animal Science, who is president of ISABR.

Visiting UIUC in conjunction with the International Maize Virus Disease Colloquium, Wooster, Ohio, August 1 to 6 were: Pierre Signoret, INRA, Montpellier, France; Gerardo Martinez Lopez, Instituto Colombiano Agropecuario (ICA), Bogota; Rodrigo Gamez, Universidad de Costa Rica, San Jose; and Peter Markum, John Innes Institute, Norwich, England. They met with staff in Plant Pathology, Agricultural Entomology, and Economic Entomology.

A. T. Tschanz, Asian Vegetable Research and Development Center, Taiwan, attended the China/USA Soybean Conference and met with College of Agriculture staff, July 26 to 30.

Christopher Wheeler, Botany Department, University of Glasgow, Scotland, and Kerstin Huss-Dannell, Forestry Faculty, University of Umea, Sweden, visited the Forestry Department and discussed UIUC research on symbiotic nitrogen fixation by alder trees with Jeffrey O. Dawson. Their visits were in conjunction with a meeting on the biology of Frankia, Madison, Wisconsin, August 3 to 6.

Visiting Veterinary Medicine the week of August 3 were: Yves Moreau and Natalie Laurent, Institute Merieux, Lyon, France; Pierre Ambroise-Thomas, Universite Scientifique et Medicale, Grenoble, France; and Nick McHardy, Wellcome Laboratories, London, England. They discussed research on hemotropic diseases with M. Ristic.

Ichiro Takahashi and Keizo Tsuchiya, Kyushu University, Japan, visited UIUC on August 4 and 5 as part of a study tour to learn about the U.S. livestock and meat industry. They met with Mohamed E. Sarhan, Agricultural Economics.

Johann Fuls, South Africa Department of Agriculture, Pretoria, and Gerhard Vellguth, Institute fur Landtechnische Grundlagenforschung, Braunschweig, Germany, discussed alternative fuels and vegetable oil fuels research with Carroll E. Goering, Agricultural Engineering, August 11.

K. K. Shim, Dean of Agriculture, Sung Kyun Kwan University, Korea, met with Walter E. Splittstoesser, Horticulture, August 12 and 13. Dr. Shim received his Ph.D. from UIUC in 1972.

Faustino Cabral visited UIUC on August 13 as part of a U.S. tour for winning a corn farming award in the Philippines. He met with Emerson

Nafziger, Agronomy.

M. J. Caulfield, Maize Coop Company of Harare, Zimbabwe, and a Zimbabwe student, Harold Corke, now studying at Guelph, Canada, visited Donald G. White, Plant Pathology, and George F. Sprague, John W. Dudley, Gilbert B. Fletcher, and D. Eugene Alexander, Agronomy, August 17. They discussed corn breeding methods used in Illinois, particularly those dealing with disease resistance, yield, and nutritional qualities.

Jean Berlan, an economist from the Universite d'Aix, Marseille, France, discussed the effects of corn breeding research on the hybrid corn seed industry with George F. Sprague, John W. Dudley, and D. Eugene Alexander, Agronomy, August 17 and 18.

Two agriculturalists and four farmers associated with Vrystaat Kooperasie BPK, Reitz, South Africa, discussed corn production with Allan G. Mueller, Agricultural Economics, D. E. Alexander and Johannes M. J. de Wet, Agronomy, and John C. Siemens, Agricultural Engineering, August 26-27.

VISITORS COMING TO CAMPUS

Won Chul Chun, Sam Yang Oil & Feed, Chong Min Kim, Dong Bang Oil & Flour Mill, Moo Young Yoo, Cheil Sugar Co., Joon Shik Rhee, Korea Advanced Institute of Science and Technology, and Say Young Jo, American Soybean Association, will meet with staff in Food Science, Animal Science, and Agricultural Engineering, September 3, as part of a five-state tour arranged by the American Soybean Association and USDA/FAS.

U Chit Saing, Deputy General Manager (Extension), Ministry of Agriculture, and U Aye Myint Tun, Taze Township Manager, Burma, will be at UIUC from September 6 to 17 for a study program arranged by USDA/OICD on extension activities for corn production, economics, storage, and processing.

Pedro Robin, Occupational Safety Engineer, Brazilian Department of Labor, will discuss farm safety with staff in extension and Agricultural Engineering, September 15 to 17.

R. A. Winkfield, Extension Advisor, Commercial Grain Producers Association, Zimbabwe, will discuss corn and wheat production with campus and county extension staff, September 17 to 20.

Contact John W. Santas, 113 Mumford Hall, 333-3638, to meet with any of these visitors.

FUNDS AVAILABLE

UIUC has received a \$3,000 grant from the Midwest Universities Consortium for International Activities (MUCIA) to be used before June 30, 1983. Areas of support include travel to international conferences, development of international components for courses and international projects, and campus seminars. Funding must be

matched by non-MUCIA money. Further information is available from the MUCIA Office, 3010 Foreign Languages Building, 333-1993.

CHINA/USA SOYBEAN SYMPOSIUM

More than 220 people attended the China/USA Soybean Symposium held at UIUC, July 26 to 30. There was an eight-member delegation from the People's Republic of China, and U.S. soybean scientists from 19 states.

IBPGR/INTSOY MEETING

The International Board of Plant Genetic Resources (IBPGR) and INTSOY held a working group meeting on soybean germplasm at UIUC, August 9 to 11. The group reviewed the status of soybean germplasm collections around the world, developed a five-year plan to collect, evaluate and utilize the germplasm, and prepared an international set of descriptors.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign 61801; Bonnie Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. The College of Agriculture provides equal opportunities in programs and employment.

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International Agriculture Newsletter



College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

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October 1982 No. 53

INTERNATIONAL ACTIVITIES

Walter E. Griffith, Cooperative Extension Service, conducted a 4-H study tour in Sweden, July 24 to August 14, for extension staff and 4-H volunteers. UIUC county extension agents participating included: Lynn Riskedal and Ann F. Rund, Piatt County, Larry L. Wachtel, McDonough County, and Geralyn M. Holthaus, Coles County.

Poo Chow, Forestry, served as an external examiner for postgraduate students in wood products engineering at the University of Ibadan, Nigeria, and visited the International Institute of Tropical Agriculture (IITA), August 14 to 22. Dr. Chow also discussed research programs with scientists at the Centre Technique du Bois, Paris, France, August 23 and 24.

Gilbert R. Hollis, Animal Science, participated in a series of swine production seminars in Mexico, the Dominican Republic, Venezuela, and Colombia, August 15 to September 4, in a program arranged by the American Soybean Association. Dr. Hollis lectured on evaluating swine production systems and management of breeding herds.

William S. Dancer, Agricultural Economics, presented a paper entitled "Prime Agricultural Land Restoration after Coal Mining in Midwestern USA: Chemical and Nutritional Considerations," at the Canadian Land Reclamation meetings, Nova Scotia, August 25 to September 3.

Robert Herendeen, Forestry, and Robert Costanza, Illinois Natural History Survey, presented invited lectures about their work in ecological economics at the Marcus Wallenberg Foundation, Stockholm, Sweden, September 1 to 3.

Kenneth Holmes, Veterinary Biosciences, presented an invited paper at the 12th European Conference on Microcirculation, Jerusalem, Israel, September 1 to 10.

Russell T. Odell, Agronomy emeritus, evaluated possibilities for rainfed soybean production in southern Sudan for the Food and Agriculture Organization, September 3 to October 3.

Jeffrey O. Dawson, Forestry, presented an invited consensus paper on dinitrogen fixation in forests at the Second International Conference on Nitrogen Fixation with Non-Legumes, Banff, Canada, September 5 to 11.

William N. Thompson, OIA, met with Board for International Food and Agriculture Development (BIFAD) staff on September 13 and 14, Washington, D.C.

Earl D. Kellogg, and William N. Thompson, OIA, participated in a Title XII Strengthening Program workshop sponsored by USAID and BIFAD, September 28 and 29, Washington D.C.

J. Kent Mitchell, Agricultural Engineering, is on sabbatical leave in South Africa through December 1982.

Theodore Hymowitz, Agronomy, presented an invited paper entitled "Variation and Genetics of Certain Anti-Nutritional and Biologically Active Components of Soybean Seed" at the CIBA Symposium on Better Crops for Food, London, England, September 13 to 16.

Harold E. Kauffman, INTSOY, will be in Asia and Europe until mid-October to discuss regional and national programs and collaborative INTSOY activities with staff and administrators at NIFTAL, Hawaii; International Rice Research Institute (IRRI), University of the Philippines at Los Banos, Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA), Philippine Council for Agriculture and Resources Research and Development (PCARRD), in the Philippines; International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Indian Council of Agricultural Research (ICAR), Madhya Pradesh Oilseeds Federation, and G. B. Pant University of Agriculture and Technology, India; and FAO/UN and the International Board for Plant Genetic Resources (IBPGR), in Rome, Italy. Dr. Kauffman will also attend an FAO-sponsored soybean conference in Madrid, Spain, in early October.

Joseph A. Jackobs, Agronomy, will participate in the discussions in India, September 22 to 30.

Erwin Small, Veterinary Clinical Medicine, will present papers on feline diseases at the 17th annual meeting of the Society for International Veterinary Symposia, October 2 to 17. The group will hold meetings in Japan, Singapore, Thailand, and Hong Kong in conjunction with veterinary medical associations of each host country.

David L. Chicoine, Agricultural Economics, presented a paper at the 48th International Conference on Assessment Administration, Kansas City, Missouri, October 3 to 7.

Attending the International Symposium on Soybean Breeding for the Tropics, Caracas, Venezuela, October 4 to 7, are Luis H. Camacho, INTSOY/Agronomy at Puerto Rico, and James B. Sinclair, Plant Pathology. Dr. Sinclair will present a paper on the effects of fungal and bacterial diseases on seed quality.

George Z. Gertner, Forestry, will present a paper entitled "Application of a Bayesian Technique for Increasing the Precision of Growth Projection Estimates" at a meeting of the International Union of Forestry Research Organizations, October 4 to 10, Vienna, Austria.

James B. Sinclair, Plant Pathology, will present a paper on the use of fungicidal sprays for control of internally seedborne fungi at the First International Symposium on Seed Pathology, Copenhagen, Denmark, October 11 to 15. He will then travel to the International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria, to participate in the Joint Planning and Evaluation Committees on High Yielding Varieties Technology Project.

Johannes M. J. deWet, Agronomy, will be in Asia from October to December to study the origins and evolution of cereals in a cooperative program with the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India. Dr. deWet will also visit several herbaria in Europe.

VISITING RESEARCHERS

Samuel Nzietchueng, Nyombe, Cameroon, is a Fulbright scholar working for four months with Jack D. Paxton, Plant Pathology, on pythium root rot of Xanthasoma. He will present a lecture on October 20 (see seminar list).

The College of Agriculture and the College of Veterinary Medicine welcome the following new foreign graduate students to the University of Illinois at Urbana-Champaign.

AGRICULTURAL ECONOMICS: Syed Arid, India, farm management and production economics; Bruno Bidegain, France, marketing and agricultural prices; Raj Chhikara, India, agricultural finance; Sadok Driss, Tunisia, marketing and agricultural prices; Shashidhara Kolavalli, India, international agricultural economics; Israeli Mmari, Tanzania, agricultural finance; Marie Nord, Sweden, marketing and agricultural prices; Mahmud Tunkuyahya, Malaysia, farm management and production economics.

AGRICULTURAL ENGINEERING: James Kelly, Ireland, power and machinery.

AGRONOMY: Bruno Albrecht, Switzerland, plant breeding; Casey DoValle, Brazil, forage breeding.

ANIMAL SCIENCE: Libertado Cruz, Philippines, reproductive physiology; Ezequiel Rodriguez do Valle, Brazil, reproductive physiology; Alicia Carriguay, Uruguay, animal breeding; Anna Chang, Taiwan, program systems analysis.

DAIRY SCIENCE: Lee R. Krumholz, Canada, microbiology.

FOOD SCIENCE: Sudhir S. Deshpande, India, food processing and engineering; Naghshineh Farnaz, Iran, food microbiology; Pankajkumar N. Patel, India, food processing and engineering.

FORESTRY: Tarhulah C. Jeyol, Nigeria, physiology; Mushtaq A. Khawaj, Pakistan, urban forestry.

HORTICULTURE: Chen Hogi, People's Republic of China, pomology; Hyouk Joung, Korea, tissue culture; Gyan

Shrestha, Nepal, apples; Won Yoo, Korea, biochemistry of apple protein.

HUMAN RESOURCES AND FAMILY STUDIES: Yu-kyung Bae, Korea, textiles and clothing, Grazyna Szymborska, Poland, general home economics.

PLANT PATHOLOGY: Susan E. Carlisle, Canada, biological control of crop pests; Chih-Ping Chao, Taiwan, plant disease control of fruits.

VETERINARY MEDICINE: Marie Cote, Canada, veterinary toxicology; Faysal El-Awar, Lebanon, microbiology; Simon Roe, Australia, surgery.

The College of Agriculture welcomes Enrique Mayer and Mahir Saul, new faculty in the Department of Anthropology. Dr. Mayer has specialized in Andean economic and exchange systems and traditional agriculture and Dr. Saul on mechanisms of stratification and levelling in the farming economy of a Voltaic village.

HEALTH AND NUTRITION IN AFRICA

A round table on Health and Nutrition in African Development will be held at UIUC on November 11 and 12. Topics to be covered include: population and fertility, nutrition, parasitic diseases and their control, infectious diseases and their control, and health service planning and development. The round table is sponsored by the African Studies Program, College of Medicine, School of Social Sciences, College of Agriculture, and the College of Veterinary Medicine at UIUC in collaboration with the School of Public Health, UICC. More information is available from the African Studies Program, 1208 W. California Street, room 101, (217) 333-6335.

SEMINARS

October 6 The Implications of Plant Virus Epidemiology in World Agriculture - J. Michael Thresh, East Malling Research Station, England.
4:00 p.m., 426 Mumford Hall.

October 11 Glimpses of the People's Republic of China - Arthur J. Muehling, Agricultural Engineering.
1:00 p.m., 240 Agricultural Engineering Building.

October 13 Forestry in Finland - Jussi Soramaki, University of Freiburg, West Germany.
noon, 205 Forest Science Lab.

October 13 Institution Building in a Constantly Changing Environment: A Case Study from Nepal - Andrew J. Sofranko, Agricultural Economics.
4:00 p.m., 426 Mumford Hall.

October 18 Citrus Dieback - A Complex Disease - S. P. Raychaudhuri, Indian Agricultural Research Institute.
4:00 p.m., W-109 Turner Hall.

October 20 Cameroon, Africa, with Special Reference to Its Agriculture - Samuel Nzietchueng, General Delegation for Scientific and Technical Research, Cameroon.
4:00 p.m., 426 Mumford Hall.

October 27 Agriculture and Agricultural Education in Uttar Pradesh, India - Poorna N. Thapliyal, G. B. Pant University of Agriculture and Technology, India.
4:00 p.m., 426 Mumford Hall.

November 3 Soybeans in Viet Nam - Joseph A. Jackobs, Agronomy.
4:00 p.m., 426 Mumford Hall.

November 10 Collective Decision Making in Traditional Andean Agriculture - Enrique Mayer, Anthropology and Center for Latin American and Caribbean Studies.
4:00 p.m., 426 Mumford Hall.

November 17 The Outlook for Pigeonpea and Chickpea (Garbanzo) - Y. L. Nene, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India.
4:00 p.m., 426 Mumford Hall.

VISITORS COMING TO CAMPUS

J. Michael Thresh, East Malling Research Station, Maidstone, Kent, England, will meet with staff in Plant Pathology and Agricultural Entomology the week of October 4. Dr. Thresh will present a seminar on October 6 (see seminar list). His schedule is being arranged by Michael E. Irwin, Agricultural Entomology, 172 Natural Resources Building, 333-6659.

S. P. Raychaudhuri, Indian Agriculture Research Institute (IARI) emeritus, will visit Plant Pathology from October 17 through 19. He will present a seminar on October 18 (see seminar list).

Keizi Kiritani, Chief of the Division of Entomology, Insect Ecology Laboratory, National Institute of Agricultural Sciences, Tsukuba, Japan, will discuss soybean entomology with Agricultural Entomology and Economic Entomology staff, October 19 to 22. Dr. Kiritani is national coordinator of the Japanese program for soybean entomology. His schedule is being arranged by Marcos Kogan, Agricultural Entomology, 172 Natural Resources Building, 333-1005.

Luis Amendola, Proyecto Suelos Cultivos, Estacion Experimental del Norte, Tacuarembó, Uruguay, will meet with INTSOY staff the week of October 21. Ing. Agr. Amendola's schedule is being arranged by John W. Santas, OIA, 113 Mumford Hall, 333-3638.

Maria Angelica Solari, Rubino Institute, Montevideo, Uruguay, arrived September 1 for an intensive training program in hemoparasitic diseases. Sponsored by FAO/UN, she will work with Ronald D. Smith and Michael G. Levy, Veterinary Medicine.

Tamas Szundy, a corn breeder at the Hungarian Academy of Sciences, Martonvasar, will be working with the corn group in Agronomy until January.

Jussi Soramaeki, a Finnish student doing graduate work at the University of Freiburg, West Germany, is visiting the Forestry Department until the end of October as part of an annual student exchange. He will present a seminar on October 13 (see seminar list). Last summer, Michael Pope, an undergraduate student in Forestry, spent three months at the University of Freiburg.

Weibo Chen, a mathematician from Beijing Agricultural University, People's Republic of China, arrived in August to spend a year working with William G. Ruesink, Agricultural Entomology, on several projects that involve forecasting insect pest populations and their impact on agriculture.

Jon Pigul is a Fulbright scholar from the Agricultural University of Poznan, Poland, working for ten months with Fred A. Kummerow, Food Science, on oxidation of lipids in tissue.

Also working with Dr. Kummerow is Takayoshi Toda, Nagasaki University School of Medicine, Japan. Dr. Toda will be here for two years investigating atherosclerosis in swine and chickens.

VISITORS RECENTLY ON CAMPUS

Franz Ellendorff, Institut fur Tierzucht und Tierverhalten, Mariensee, West Germany, met with William C. Wagner, Veterinary Medicine, and Philip J. Dzuik, Animal Science, and

presented a seminar on pig neuroendocrinology, August 16.

F. A. Bernardo, President of Visayas State College of Agriculture, Philippines, visited UIUC August 27 to 30. He met with William N. Thompson, J. B. Claar, and John W. Santas, OIA; Dean Orville G. Bentley; Harold E. Kauffman, INTSOY; Poo Chow, Forestry; Upson S. Garrigus, Animal Science; Charles M. Brown, Agronomy; Arthur J. Siedler, Food Science; and Delbert T. Dahl, Agricultural Communications.

Lesley Kahl, Hall Institute of Medical Research, Melbourne, Australia, met with the hemotropic disease group in Veterinary Medicine from August 29 to September 2. Dr. Kahl presented a seminar on antigens and immune responses to Babesia bovis in cattle.

Insaf Nasr, Dean of the Faculty of Home Economics at Helwan University, Cairo, Egypt, met with staff from Cooperative Extension and the School of Human Resources and Family Studies from August 30 to September 17. Her program was arranged by Lawrence B. O'Reilly, Assistant Director, Cooperative Extension.

Jorge A. Colaco, Instituto Universitario de Tras-os-Montes e Alto Douro, Portugal, discussed animal breeding and genetics with Michael Grossman and Roger D. Shanks, Dairy Science, and Leif H. Thompson, Daniel Gianola, and David L. Thomas, Animal Science, September 7.

Peter Chen Hsiao-Tzu, Department of Mechanical Engineering, National Chung-Hsing University, Taiwan, visited Agricultural Engineering on September 9.

Eugene Pipano, Kimron Veterinary Institute, Bet Dagan, Israel, visited Veterinary Medicine from September 13 to 16. Dr. Pipano is cooperating investigator, and Miodrag Ristic is principal investigator, on a BARD project on bovine babesiosis.

Archie Laing, University of London, England, Stig Einarrisson, Uppsala Veterinary College, Sweden, Michel Perez, French Ministry of Agriculture, and Harold Hawk, USDA Dairy Research Center, Beltsville, Maryland, discussed plans for the 1984 International Congress for Animal Reproduction and Artificial Insemination with William C. Wagner, Veterinary Medicine, Glenn W. Salisbury, Dairy Science emeritus, and other members of the local committee, September 16 to 18. The congress will be held at UIUC.

Emidio Bonato, Head, and Milton Kaster, Technical Director of the National Soybean Center, Londrina, Brazil, visited UIUC September 19 to 21. They met with Marcos Kogan, Agricultural Entomology, Charles Helm, Economic Entomology, Richard L. Bernard and Donald A. Holt, Agronomy, John W. Santas and William N. Thompson, OIA,

Thomas A. McCowen, INTSOY, and James B. Sinclair and Richard E. Ford, Plant Pathology.

Eight European journalists, sponsored by the American Soybean Association (ASA), met with John W. Santas, Thomas A. McCowen and Dan R. Erickson, INTSOY, and Delbert T. Dahl, Agricultural Communications, September 23. They were accompanied by Dan Ruwee, ASA.

Leones A. de Almeida, and Jose Tada-shi Yorinori, National Soybean Center, met with UIUC soybean breeders and pathologists, September 30 and October 1.

A 17 member soybean study team from Japan attended a symposium presented by UIUC staff on the U.S. soybean industry, October 1. Sponsored by the American Soybean Association, the team was accompanied by J. Yamashita.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign 61801; Bonnie Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. The College of Agriculture provides equal opportunities in programs and employment.

**Office of International Agriculture
College of Agriculture
University of Illinois at Urbana-Champaign
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International Agriculture Newsletter

College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

November 1982 No. 54

INTERNATIONAL ACTIVITIES

Attending the 21st International Horticultural Congress, Hamburg, Germany, August 29 to September 4, were William L. George, Daniel B. Meador, and John S. Titus, Horticulture. Dr. George presented a paper on tomato genetics and breeding, and participated in pre- and post-congress tours of research institutes and vegetable production areas in Germany. Dr. Meador participated in pre- and post congress tours of the fruit industry in northern Italy and southern Germany.

Dr. Titus visited the Agricultural Institute and the Department of Horticulture, University College, Dublin, Ireland, and presented papers at the Ninth International Plant Nutrition Colloquium, Coventry, England.

John T. Scott, Agricultural Economics, presented a paper on computerized data recall and formula administration of farm land assessment at the World Congress on Computer Assisted Valuation of Real Property, August 1 to 6. The congress was sponsored by the Lincoln Land Institute at Harvard University.

L. Touby Kurtz, Agronomy, was in the People's Republic of China from September 3 to 21 at the invitation of Li Ching-kwei, Deputy Director of the Soil Research Institute, Academia Sinica, Nanjing. Dr. Kurtz met with soil scientists and presented lectures at the South China Institute of Botany, Guangzhou, the Soil Research Institute in Nanjing, Beijing Agricultural University, and in Shanghai.

Nathan C. Russell, Agricultural Publications, accepted a position as editor at the International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria, beginning in mid-October.

Miodrag Ristic, Veterinary Pathobiology, was in France from October 4 to 14 to meet with officials from the World Health Organization, Geneva, Switzerland, Institute Merieux, Lyon, France, and the Universite Scientifique et Medicale, Grenoble, France, concerning the Second International Conference on Malaria and Babesiosis, to be held in September, 1983, in Annecy, France.

Thomas A. McCowen, INTSOY Administration, and Luis H. Camacho, INTSOY/Agronomy at Puerto Rico, discussed the development of collaborative regional soybean research programs with scientists at the Centro Internacional de Agricultura Tropical (CIAT), and the Instituto Colombiano Agropecuario (ICA), Colombia, October 10 to 15.

Peter J. Barry, Agricultural Economics, presented a series of lectures on agricultural finance at the University of Guelph, Canada, October 12 to 15.

Harold E. Kauffman, INTSOY, presented a seminar entitled "Potential for International Collaboration on Soybean Research and Development" at Cornell University, October 20.

Arthur J. Muehling, Agricultural Engineering, is participating in a project to eradicate African swine

fever in Haiti. The project is administered by the Inter-American Institute for Cooperation in Agriculture (IICA), San Jose, Costa Rica. Dr. Muehling was in Haiti from September 26 to October 15, and will return there in early November.

Marcos Kogan, Agricultural Entomology, lectured on general principles of pest management at a course on Integrated Control of Cassava Pests held at the Centro Internacional de Agricultura Tropical (CIAT), Colombia, October 22 to 29.

Robert W. Howell, Agronomy emeritus, will serve as senior advisor on a UNDP/FAO project to strengthen soybean research for increased production in Heilongjiang Province, People's Republic of China, for a month beginning in late October.

Marlowe D. Thorne, Agronomy, left November 1 to serve as UIUC staff member on a Midwest Universities Consortium for International Activities (MUCIA) project at the Institute for Agriculture and Animal Sciences (IAAS), Tribhuvan University, Rampur, Nepal. The project will assist IAAS in developing an integrated program of teaching, research, and extension suited to Nepali agriculture. Dr. Thorne, who will serve as team leader, will advise in plant sciences. The Thorne's address is: IAAS/MUCIA, GPO Box 984, Kathmandu, Nepal.

The third ICA/INTSOY Soybean Production course will be held in Palmira, Colombia, November 22 to December 10. Conducted in Spanish, the course is for Latin American soybean scientists and extension agents. INTSOY staff who will lecture include John W. Santas, OIA, Jose A. Bravo and Luis H. Camacho, INTSOY Agronomy at Puerto Rico, Michael E. Irwin, Agricultural Entomology, and Jane E. Polston, Plant Pathology.

Dr. Irwin will also view the cropping systems program at the Centro Internacional de Mejoramiento de Maiz

y Trigo (CIMMYT), Mexico, November 10 to 15.

VISITING RESEARCHERS

Nabil Hemeida, Cairo University, Egypt, is a visiting professor in Veterinary Clinical Medicine from September through July, 1983, to study factors that influence phagocytosis of organisms by white blood cells in cattle.

Also visiting Veterinary Clinical Medicine is Carlos Roehe, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil. Dr. Roehe is here for one year for advanced clinical training and research on diagnostic and internal medicine of cattle.

Toshiaki Nakanishi, Nagasaki University Medical School, Department of Internal Medicine, arrived in September to work with Toshiro Nishida, Food Science, on lipoprotein in relation to heart disease. Dr. Nakamishi can be reached at 102 Burnsidess Research Laboratory, 333-1876.

Emir Alkissah Siregar, Program Manager, Information Resource Center, and Amri Jahi, Extension Education, Institut Pertanian Bogor, Indonesia, were at UIUC from October 18 to 30 for a program arranged by Agricultural Communications on communications instruction and technology.

W. Douglas Morrison, professor of animal and poultry science, University of Guelph, Canada, is working with Stanley E. Curtis, Animal Science, for the fall semester.

VISITORS RECENTLY ON CAMPUS

Donald Winkelmann, head of the economic program at CIMMYT (Centro Internacional de Mejoramiento de Maiz y Trigo), visited UIUC on October 28 and 29. He met with Office of International Agriculture, INTSOY, and Agricultural Economics staff.

PROCEEDINGS AVAILABLE

"Understanding the World Food System: Its Importance to Illinois and the Nation" has been issued by the Office of International Agriculture. This volume is the proceedings of the world food conference held at UIUC February 14 and 15, 1982. Single copies are available from the Office of International Agriculture, 113 Mumford Hall, 333-6421.

INTERPAKS DIRECTOR

Eldon L. Johnson will serve as Director of the International Program for Agriculture Knowledge Systems (INTERPAKS) while J. B. Claar is Acting Dean for the College of Agriculture. Dr. Johnson can be contacted at 434 Mumford Hall, 333-4350. Please note that his mailing address is 113 Mumford Hall.

FOUNDATION PRESENTATION

The Office of International Agriculture, in cooperation with the Office of Agricultural Communications, made the feature presentation at the October 9 meeting of the University of Illinois Foundation. A special slide-audio show illustrating the international activities of the Colleges of Agriculture and Veterinary Medicine was presented. This was followed by a panel discussion by Dean Orville G. Bentley, Dean Richard E. Dierks, William N. Thompson, and Earl D. Kellogg.

BOOKS SENT OVERSEAS

More than 125 volumes of journals and books were recently sent to Kasetsart University Library, Bangkok, Thailand. The collection included material contributed by Ivan J. Jansen, Agronomy, and J. W. Gerdemann and James B. Sinclair, Plant Pathology.

OIA TRAINING ACTIVITIES

IVORY COAST

Four students from the Ivory Coast, participants in a training project sponsored by the Office of International Agriculture and the Ivory Coast Ministry of Agriculture, are enrolled in UIUC's Intensive English Institute. They are Djokouri Kouassi, Abdoulaye Conde, Kouassi V. Tieha, and Valentine C. Yapi. Next semester they will be enrolled in master's degree programs at U.S. universities. Through this program 38 Ivorians have completed their degrees, and 21 are enrolled in master's degree programs in the U.S.

ZAIRE

Four students from Zaire, sponsored for master's degree study through the MASI/UIUC subcontract, have begun study in the U.S.: Asan Mawiya, soil science, North Carolina State University at Raleigh; Nkala Lubaki, soil science, Southern Illinois University; Mukishi Pyndji, plant pathology, UIUC; and Mbikayi Tshidimba, Intensive English Institute, UIUC.

ZAMBIA

Eleven Zambian students, sponsored under the ZAMARE project, have been enrolled in U.S. universities for the fall semester: George Simakando, animal science, UIUC; Watson Mwale, plant and soil science, Southern Illinois University; Benny Zimba, agricultural economics, UIUC; Andson Ngala, agricultural economics, Southern Illinois University; Mathias Kanyemba, agronomy, Southern Illinois University; John M. Moonga and Stephen Muliokela, agronomy, Mississippi State University; Mantel C. Sindazi, agricultural mechanics, University of Maryland-Eastern Shore; Francis H. Mweemba, Chisambwe Chishinda, and Kamona K. Mulonda, agricultural extension, University of Maryland-Eastern Shore.

VISITORS RECENTLY ON CAMPUS

C. E. Muralidhar, Head of the Department of Botany, NMKRV First Grade College for Women, Bangalore, India, visited Horticulture July 29 and 30. He presented a lecture on in vitro propagation of Cymbidium Passiflora and Polianthes, and discussed tissue culture propagation with Martin M. Meyer.

Ralph Wilson, technical services manager of Meade-Buswell, Northampton, England, and a 1982 Churchill Fellow, discussed design of animal facilities with Temple Grandin and Stanley E. Curtis, Animal Science, September 1.

Hiroyoshi Okamoto, Grain Division of Mitsui Co., Tokyo, Japan, and Haruhiko Kozui, Director of Kimura Co., Osaka, Japan, discussed soybean dehulling and utilization with L. S. Wei, Food Science, September 8.

Prudence Kupka, Universite Scientifique et Medical, Grenoble, France, collaborated with Miodrag Ristic, Veterinary Pathobiology, on research techniques in malaria, September 22 to October 1.

Ricardo Roberto Siciliano, plant breeder with the Compania Continental, Argentina, met with Richard L. Bernard and Danny R. Erickson, Agronomy, James B. Sinclair, Plant Pathology, and Thomas A. McCowen, INTSOY, September 22.

Mats Molen, an architect with the Swedish University of Agricultural Sciences, Department of Farm Buildings, discussed farm house design and farmstead planning with Donald J. Jedelee, Agricultural Engineering, September 27.

R. Martin, F. Aguirre, F. Gonzalez, J. Fox, and J. M. Gonzalez, swine producers from Mexico, met with Upson S. Garrigus, Donald E. Becker, Stanley E. Curtis, Benjamin A. Rasmusen, Robert A. Easter, Gilbert R. Hollis,

and Leif H. Thompson, Animal Science, September 29. Sponsored by the American Soybean Association, the team was escorted by Rene Ledesma, ASA/Mexico, and Tom Eshleman, ASA/St. Louis.

Vladmir F. Kiver, Deputy Director, All-Union Corn Research Institute, Dnepropetrovsky; Fedor L. Kozlovtssev, Deputy Chief, Regional Agricultural Administration, Volgograd; Alexander D. Kalinichenko, Chairman of the Collective Farm "Friendship of People," Crimea; and Pavel P. Sorokin, Dean, Moscow Institute of Agricultural Engineering, USSR, discussed grain drying with Agricultural Engineering staff, September 30. Sponsored by Monsanto, they were accompanied by Donald L. Barnes, International Product Development Department, Monsanto St. Louis, and Michael E. Chramko, Monsanto Austria/USSR.

Colin Clark, University of Queensland, Australia, and formerly Director of the Agricultural Research Institute, Oxford University, visited UIUC October 4. He discussed economic aspects of agricultural development with students and faculty in economics and agricultural economics, and presented a seminar entitled "Resources, Agriculture, and the Recent History of the Developing Countries."

Chongrak Prichananda, Rector of Kasetsart University, Bangkok, Thailand, met with International Agriculture staff on October 6.

Ed Rybicki, University of Cape Town, South Africa, met with Plant Pathology staff on October 11 and 12, and presented a lecture on virus transmission by insects.

Ion Dinu, Rumanian Agricultural Attache, Washington, D.C., and formerly professor and Director of the Agricultural Institute, Bucharest University, met with Arthur J. Muehling, Agricultural Engineering, and Animal Science staff, October 14 and 15.

VISITOR COMING TO CAMPUS

Claus-Dieter Hartjen, Institut für Landwirtschaftliche Betriebs-und Arbeitslehre der Christian Albrechts Universität, Kiel, West Germany, will discuss development and application of computer assisted information and decision supporting systems in agriculture, and grain storage and handling with Agricultural Economics and Agricultural Engineering staff, November 4 to 8.

Contact John W. Santas, 113 Mumford Hall, 333-3638, to meet with Mr. Hartjen.

SEMINARS

November 3 Soybeans in Viet Nam - Joseph A. Jackobs, Agronomy.
4:00 p.m., 426 Mumford Hall.

November 10 Collective Decision Making in Traditional Andean Agriculture - Enrique Mayer, Anthropology and Center for Latin American and Caribbean Studies.
4:00 p.m., 426 Mumford Hall.

November 17 The Outlook for Pigeonpea and Chickpea (Garbanzo) - Y. L. Nene, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India.
4:00 p.m., 426 Mumford Hall.

December 2 Caught in a Squeeze: The Effects of Labor Shortage on Agricultural Development Among Lahu Women in Northern Thailand - Jacquetta Hill, Educational Psychology.
noon, University YMCA, Parr Lounge, 1001 S. Wright St., Champaign.
You are welcome to bring your lunch or you may purchase it in the YMCA cafeteria. (WID seminar series).

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign, 61801; Bonnie Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. The College of Agriculture provides equal opportunities in programs and employment.

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International Agriculture Newsletter



College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

December 1982 No. 55

INTERNATIONAL ACTIVITIES

Roy K. Simons, Horticulture, attended the 21st International Horticulture Congress, Hamburg, Germany, August 29 to September 4. He also participated in a pre-congress tour of fruit-producing regions in Germany and a post-congress tour to observe vegetable, fruit, and nursery production and research stations in Denmark and Sweden.

Gail M. Fosler, Horticulture, was an invited speaker at the 15th International Bedding Plant Conference and Trade Show, Orlando, Florida, October 2 to 7.

Mel C. Chu, Horticulture, lectured on in vitro plant propagation, plant micro-techniques, and North American ornamental trees and shrubs at Beijing Forestry College, People's Republic of China, October 12 to 27.

Michael F. Hutjens, Dairy Science, presented seminars on dairy calf management and feeding at Seoul, Pusan, and Suweon, Korea. His trip was sponsored by Borden International and the National Rendering Association.

Burton E. Swanson, Agricultural Education, was invited to Rome, Italy, October 25 to 27, by the Food and Agriculture Organization (FAO). He consulted with the Human Resources, Institutions, and Agrarian Reform Division of the Agricultural Education and Extension Service on a study of agricultural education and training institutions in Africa. The proposed

FAO study will build on Dr. Swanson's ongoing research on agricultural education institutions in the third world.

Marcia White, Agricultural Economics, presented a progress report on the bean-cowpea research in Tanzania at a meeting in East Lansing, Michigan, October 31 to November 2.

Earl D. Kellogg, International Agriculture, Frederick C. Fliegel and Mohamed E. Sarhan, Agricultural Economics, Corrine Glesne, Educational Policy Studies, and Violet M. Malone, Cooperative Extension Service, spent three weeks in St. Vincent during November completing the second phase of an agriculture sector assessment for St. Vincent. This is being done through a Technical Service to Mission contract of MUCIA with USAID/Barbados. Based on the findings of this study, the USAID/Barbados mission will work with the government of St. Vincent to design agricultural development assistance.

William C. Wagner, Veterinary Biosciences, recently spent a month in Brazil at the invitation of the Brazilian government consulting on reproductive physiology problems. He spent three weeks advising on graduate and animal health programs at the University of Pelotas and one week at the Campo Grande University and beef research facility.

Jacqueline Fletcher, Plant Pathology, was in Mexico from November 9 to 20. She visited soybean production areas in southern Mexico to search for

plants showing symptoms similar to those of machismo disease and collected samples for study at UIUC.

Harold E. Kauffman, INTSOY, discussed collaborative activities with the directors of IITA, AVRDC, CIAT, and ICRISAT during meetings held at the World Bank headquarters in Washington, D.C., November 11 and 12.

John E. Bowman, graduate student in Plant Pathology, is conducting a portion of his Ph.D. thesis research at the National Soybean Research Center, Londrina, Brazil. He left in mid-September and will spend one year studying soybean diseases.

William N. Thompson and Carolyn Pribble, Office of International Agriculture, and Enrique Mayer, Anthropology, participated in the Symposium on Farming Systems in the Field held at Kansas State University, Manhattan, from November 21 to 23. This symposium was sponsored under KSU's Title XII Strengthening Grant.

Theodore Hymowitz, Agronomy, will present papers on the ethnobotany of Pueraria spp. at the U.S.-Taiwan Cooperative Symposium on the Improved Exploitation and Development of Plant Resources, December 12 to 19, Taipei. The symposium is sponsored by the National Science Foundation, the New York Botanical Garden, Taiwan National University, and the National Science Council of Taiwan.

Dr. Hymowitz will lecture in Tokyo, Japan, from December 19 to 21, sponsored by the Japan Association for Development and Preservation of New Crop Strains.

VISITORS RECENTLY ON CAMPUS

H. J. Oosten and G. Elzenga, Wilhelminadorp Fruit Breeding Station, the Netherlands, discussed tissue culture induced variability in fruit crops with Robert M. Skirvin, Horticulture, September 13.

Pietro Catizone, weed scientist, and Giovanni Toderi, Director of the Institute of General Agronomy and Field Crop Cultivation, University of Bologna, Italy, reviewed Illinois agricultural production with Ellery L. Knake, Agronomy, September 22.

Christen Sievertsen, a student at the Danish Agricultural University, Copenhagen, discussed dairy cattle housing and feeding systems with staff in Agricultural Engineering and Dairy Science, September 24.

Elliot Kitajima, University of Brasilia, Brazil, visited UIUC on October 14. He discussed current virology research with Cleora J. D'Arcy, Jacqueline Fletcher, Richard E. Ford, and Alan Howarth, all in Plant Pathology. Dr. Kitajima also met with Marcos Kogan and Michael E. Irwin, Agricultural Entomology, and Lindsay M. Black, Botany emeritus.

Visiting the Agronomy corn group on October 25 were Yoel Efron, assistant director and program leader of the cereal improvement program of the International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria; and Israeli industrialists Armin Palukovic and Yoram Ben Ami. They were primarily interested in high oil hybrids. Drago Parlov, a corn breeder with the Institute for Breeding and Production of Field Crops, Zagreb, Yugoslavia, met with the Agronomy corn group on October 26.

Nelson Morgado C., Chief of Plant Protection, Venezuela Ministry of Agriculture, Jorge Alberto Osorio, Head, Venezuela Vegetable Quarantine Division, Manuel Rodriguez, Associate Director, U.S. Feed Grains/Venezuela, and Mike Callahan, Associate Director of U.S. Feed Grains/Latin America, visited UIUC on October 20. They discussed grain quality and breakage during handling and shipping with Marvin R. Paulsen, Agricultural Engineering, and molds affecting grain storage with Barry J. Jacobsen, Plant

Pathology. The Venezuelan grain team was escorted by Melody Taylor, Director of Communications, Illinois Corn Growers Association.

A delegation from Bulgaria including Ivan Tonev, Deputy Chairman, National Agro-Industrial Union (Plant Protection); Angiel Bobokov, Chief, Department of Agriculture, Central Committee of the Bulgarian Communist Party; Dimitur Andreevski, Director, International Division, National Agro-Industrial Union; Dimitur Tsolov, Special Advisor to the National Agro-Industrial Union; Stanko Beremski, Agricultural Attache, Bulgarian Embassy, Washington, D.C.; and Dmitri Dimitrov, Trade Representative, Bulgarian Embassy, Washington, D.C., visited central Illinois on October 27 and 28.

They toured the Kraft factory in Champaign, the grain handling and marketing facilities at The Anderson's, and the Charles Ehler farm in Champaign. They also discussed Illinois corn production with Emerson Nafziger, Agronomy; Illinois soybean production with Gary E. Pepper, Agronomy; and Illinois agriculture and the federal/state partnership in agricultural research with Raymond G. Cragle, Agricultural Experiment Station. The Bulgarian agricultural delegation was escorted by Erick Erickson, USDA's Office of International Cooperation and Development.

Pirkko Antilla, assistant director of the National Board of General Education located at the University of Helsinki, Finland, observed content and procedures for teaching art and design in formal and informal educational settings, November 1 through 8, at the School of Human Resources and Family Studies. The trip was sponsored by a Fulbright Scholarship.

David Kidd, consultant for the World Bank, discussed bean and grain legume

production training programs for India with Harold E. Kauffman, INTSOY, Joseph A. Jackobs, Agronomy, Burton E. Swanson, Agricultural Education, Raymond A. Woodis and John A. Behrens, Agricultural Communications, and John W. Santas, Office of International Agriculture, November 4 and 5.

Uzi Geller, Granot Agricultural Cooperative, Israel, discussed automation of milking parlors with Sidney L. Spahr, Dairy Science, November 9.

Maud Knutsson, product development manager, Astr Ewos of Alfa Laval Company, Stockholm, Sweden, met with Dairy Science and Animal Science staff on November 9 and 10. Ms. Knutsson received a M.S. in Animal Science at UIUC in 1973.

M. Yamamoto, Eisai Co., Ltd., Tokyo, Japan, discussed automatic detection of mastitis in milking parlors with Hoyle B. Puckett, Agricultural Engineering/USDA, and Sidney L. Spahr and Ranjit S. Fernando, Dairy Science, November 12.

George Lewis, Director of the U.S. Army Medical Unit in Kuala Lumpur, Malaysia, met with Miodrag Ristic, Veterinary Pathobiology, to review joint programs on epidemiology of Rickettsia sennetsu in humans in Southeast Asia, November 11 and 12.

William H. Judy, Africa Bureau, Office of Development Resources, U.S. Agency for International Development, visited UIUC on November 19 and presented a seminar entitled "Cooperation for Development in Africa."

Stewart Crocker, Farms Director of Commonwork, Kent, England, discussed adding value to animal waste with Thomas Brumm and Elwood F. Olver, Agricultural Engineering, and D. Homer Buck, Illinois Natural History Survey, November 22. Mr. Crocker was sponsored by a Nuffield Farming Travel Scholarship.

Guenther Melhorn, professor of animal production and veterinary medicine, Karl-Marx University, Leipzig, Germany, will be an International Research and Exchanges Board (IREX) scholar at UIUC from November 19 to December 10. His program was arranged by Robert E. Brown, Overseas Projects and Foreign Visitors, 3019 Foreign Languages Building, 333-1990.

SEMINARS

December 2 Caught in a Squeeze: The Effects on Lahu Women in Northern Thailand of Labor Shortage from Agricultural Development - Jacquetta Hill, Educational Psychology.
noon, Paar Lounge, YMCA

December 2 Strengthening International Agricultural Research - Lowell Hardin, Assistant Director of International Programs and professor of agricultural economics, Purdue University.
3:00 p.m., 426 Mumford Hall.

SHORT COURSE EARNINGS

Earnings allocated to departments in the College of Agriculture for participation in three 1982 short courses were as follows:

Seed Improvement

Agronomy \$1,885

Agricultural Communications \$1,885

Technical and Economic Aspects of Soybean Production

Agricultural Communications \$3,200

Agricultural Economics \$2,800

Agricultural Engineering \$2,050

Agricultural Entomology \$3,000

Agronomy \$6,000

Food Science \$2,400

Plant Pathology \$3,000

Soybean Processing for Food Uses

Agricultural Engineering \$150

Food Science \$1,892

Foods and Nutrition \$150

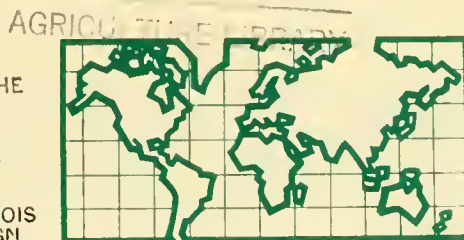
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NANCY DAVIS
226 MUMFORD HALL

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JAN 25 1983



International Agriculture Newsletter

College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

January 1983 No. 56

INTERNATIONAL ACTIVITIES

Mark A. James, Veterinary Pathobiology, was an invited speaker at a symposium on hemotropic diseases of cattle held during the Third Venezuelan Congress of Microbiology, November 6 to 12, Barquisimeto. He spoke on the "Epidemiology of Bovine Anaplasmosis and Babesiosis in the Centro-Occidental Region of Venezuela." Dr. James is UIUC representative in a cooperative research project with the Universidad Centro-Occidental Lisandro Alvarado, Barquisimeto.

Carroll J. W. Drablos, Agricultural Engineering, participated in the International Drainage Workshop held at the National 4-H Center, Chevy Chase, Maryland, the week of December 6.

Sam H. Johnson, Agricultural Economics, will be in Asia during January. He will spend two weeks in Pakistan discussing agricultural development in Baluchistan with World Bank and USAID personnel and gathering additional data on water management. Dr. Johnson will also participate in a workshop at Chiang Mai University, Thailand, to help develop a new M.S. program in agricultural systems.

Earl D. Kellogg, Office of International Agriculture, was in St. Vincent from December 8 to 17 to finalize a Project Identification Document for USAID assistance in agriculture. Dr. Kellogg was working with the regional USAID office in Barbados and Leon Hesser of IADS.

James R. Karr, Forestry and Ecology, Ethology and Evolution, will be on sabbatical leave in Panama from January through August, 1983. He will conduct research on the organization of bird communities in tropical forests, and the principles for the design of nature preserves in tropical forest environments. The research is supported by a grant from the National Science Foundation.

Raymond A. Woodis, Agricultural Communications, and Donald R. Smucker, Cooperative Extension Service Agriculture Advisor for Piatt County, have been selected for two-year assignments on the Caribbean Agricultural Extension Project (CAEP). This is Phase II of a contract which the Midwest Universities Consortium for International Activities (MUCIA) has with the USAID regional mission in Barbados.

Beginning January 1, Mr. Woodis will be assigned to the Department of Agricultural Extension, University of the West Indies, Trinidad, to help organize an agricultural communications and outreach program for the Faculty of Agriculture.

Mr. Smucker will be in Belize beginning February 15 to help implement the national extension improvement plant, which was developed under Phase I of CAEP.

Earl R. Swanson, Agricultural Economics, will be team leader of an agricultural assessment study for Antigua. The study is to be performed in January through a Technical Support to Mission (TSM) contract held by the

Midwest Universities Consortium for International Activities (MUCIA) with the USAID mission in Barbados.

William N. Thompson and Thomas A. McCowen, Office of International Agriculture, traveled to Washington, D.C., December 21, to discuss Zambia Agricultural Research and Extension (ZAMARE) Project activities with Ernest Gibson, USAID/Lusaka, USAID/-Washington, Southern Illinois University, and University of Maryland-Eastern Shore representatives.

VISITING RESEARCHERS

Paul Hemsworth, Animal Research Institute, Werribee, Australia, is a George A. Miller visiting Scholar in the Department of Animal Science, December 1, 1982, through May 15, 1983. Dr. Hemsworth, who is interested in domestic animal behavior and the effect of animal-human interaction on growth and reproduction, will work with Stanley E. Curtis, Harold W. Gonyou, and Philip J. Dziuk.

Bernard Kruff, Lehr and Versuchsgut Oberschleissheim des Fachbereichs Tiermedizin der Ludwig-Maximilians Universität München, will study applied and research aspects of embryo transfer in pigs, sheep, and cattle for three months in Animal Science. He will work with Philip J. Dziuk.

VISITORS RECENTLY ON CAMPUS

Recent visitors to Agricultural Economics include Rick Lacey, Agricultural Business Research Institute, University of New England, Armidale, Australia, October 18 and 19, and R. A. E. Mueller, University of Kiel, West Germany, November 29. They discussed research and application of electronic marketing systems and pricing institutions in the U.S.

Christina Schlumbohm, a student at the veterinary college in Hannover,

West Germany, spent October through December at UIUC's College of Veterinary Medicine. She was the third student from Hannover to participate in this extern program. The college has a similar program with the University of Edinburgh, Scotland, and Cambridge University, England.

Byung Sung Sah, president of Borden-Korea, and Lew Sutton, general manager of Borden International, visited two dairy farms in Illinois on November 22. Michael F. Hutjens, Dairy Science, was their host.

Lazar Kojic, Maize Institute of Zemun Polje, Yugoslavia, visited the Agronomy corn group on November 29.

Gan Yongzhang, director of the Animal Husbandry Department of Henan Provincial Agricultural Bureau; Qi Lingyun, director of the Research Department of the Henan Agricultural Academy of Science; Shen Zhikui, deputy manager of Huang Fan State Farm; Wang Huai-shun, Zheng Yang Swine Breeding Farm; and Feng Yongchen, Foreign Affairs Office of the People's Government of Henan Province, People's Republic of China, attended a swine seminar presented by Animal Science staff on November 30. Participating in the seminar were: Upson S. Garrigus, Donald E. Becker, Gilbert R. Hollis, Stanley E. Curtis, Robert A. Easter, Aldon H. Jensen, Daniel Gianola, and Leif H. Thompson. The Henan Technical Study Group of Swine Science was escorted by Lyle Roberts, Export Division, Illinois Agricultural Association.

Margaret Britz and Geoffrey Best, Department of Applied Biology, Royal Melbourne Institute of Technology, Australia, discussed methods of isolation and characterization of various metabolic groups of anaerobic bacteria with Marvin P. Bryant, Microbiology Division of Dairy Science, November 30 and December 1. Dr. Best and Dr. Britz are both working at the Massachusetts Institute of Technology (MIT), Amherst, for one year.

Twenty-seven Japanese farmers visited UIUC on December 2. They toured the beef research facilities with Larry L. Berger, Animal Science, and attended a lecture on corn and soybean marketing given by Lowell D. Hill, Agricultural Economics.

Louis Jackai, entomologist with the Grain Legume Improvement Program (GLIP) at the International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria, met with Agricultural Entomology staff during the week of December 6.

Emil Paldi, Agricultural Research Institute, Hungarian Academy of Sciences, Martonvasar, discussed the biochemistry of plant nucleases with Curtis M. Wilson, Agronomy and USDA, and other phases of RNA metabolism with Agronomy and Botany staff, December 7. Dr. Paldi is in the U.S. on an interacademy program sponsored by the National Academy of Sciences.

D. V. Seshu, plant breeder and coordinator of the international rice testing program of the International Rice Research Institute (IRRI), the Philippines, visited INTSOY and Agronomy staff on December 8 to discuss plant breeding and varietal testing activities.

John Wenzel, a consultant for the Canadian International Development Agency (CIDA), discussed soybean production and processing projects in Sri Lanka with Joseph A. Jackobs, Agronomy, Alvin I. Nelson and Wilmot Wijeratne, Food Science, and Harold E. Kauffman, INTSOY, on December 3.

Ibrahim Miyic, technical engineer and director, and Dzanic Husein, consultant, Agrokomerc Co., Velika Kladusa, Yugoslavia, met with L. S. Wei and Marvin P. Steinberg, Food Science, on December 8. They discussed soybean food utilization of full-fat and defatted products.

Rene Misrahi, Societe Lyonnaise des Eaux et de L'Eclairage, France, dis-

cussed metabolic interactions of bacterial species in anaerobic degradation and methanogenesis with Marvin P. Bryant, Microbiology Division of Dairy Science, December 17.

ICA/INTSOY SHORT COURSE

Twenty-one Latin American soybean research and production personnel participated in the third ICA/INTSOY Soybean Production Course, Palmira, Colombia, November 22 to December 10: Roberto Delgadillo Velez, Instituto Boliviano de Tecnologia Agropecuaria (IBTA), Yacuiba; Carlos E. Velasquez P., FONAIAP, Guarico, Venezuela; Hugo Faiguenbaum M., Universidad de Chile, Santiago; Jose Morales Gonzales, Instituto Nacional de Investigacion y Promocion Agropecuaria (INIPA), Tingo Maria, Peru; Oswaldo del Castillo and Margoris Boadas Herrera, Universidad de Oriente, Venezuela; Raul Lozano Romero, FUSAGRI, Venezuela; Eduardo Mata M. and Ricardo Quiros U., CARE Costa Rica; Rubens R. Padilla Roman, farmer, Valledupar, Colombia; Luis Fernando Sanchez, Hernan Villar S., and Raul Madrinan M., ICA, Palmira, Colombia; Pedro Milanez de Rezende, Escola Superior de Agricultura de Lavras, Brasil; Renato Barboza Rolim, EMGOPA, Goiania, Brasil; Oscar Acuna Navarro, Universidad de Costa Rica, San Pedro; Jesus Ramirez P., Ministerio de Agricultura del Valle, Palmira, Colombia; Junior Jose Padron Lopez, S.E.A., Santo Domingo, Dominican Republic; and Jose Maria Mosquera, Universidad del Tolima, Colombia.

SUMMER LANGUAGE FELLOWSHIPS FOR 1983

January 24, 1983, is the application deadline for 1983 summer language study for UIUC graduate students of Brazilian Portuguese, Amerindian languages, or Latin American Spanish. Details are available from the Center for Latin American and Caribbean Studies, 1208 W. California Street, Urbana, IL 61801, 333-3182.

THE ROLE OF THE CARIBBEAN IN LATIN AMERICA - CALL FOR PAPERS

April 1, 1983 is the deadline for all proposals to present papers or organize panels for the conference entitled "The Role of the Caribbean in Latin America," which will be held November 3 to 5, 1983, at UIUC. Faculty and undergraduate and graduate students are encouraged to participate. For further information contact the Center for Latin American and Caribbean Studies, 1208 West California Street, Urbana, IL 61801, 333-3182.

REGISTRY OF INSTITUTIONAL RESOURCES

The Registry of Institutional Resources is maintained by the U.S. Agency for International Development (USAID) to match U.S. university resources with USAID programs.

In 1981, UIUC staff were given the opportunity to submit a Professional Profile to the Registry. Faculty and staff joining UIUC since then, and

those who wish to update their file, should contact Carolyn M. Pribble, 113 Mumford Hall, 333-6337.

STUDENT SUMMER PROGRAM IN ARGENTINA

March 1, 1983 is the application deadline for Juniors, Seniors, and graduate students interested in a five-week summer session at the University of Belgrano, Buenos Aires, Argentina. Students must be proficient in Spanish, and must be majoring in Latin American studies or in a discipline with a concentration in Latin America. The session consists of two interdisciplinary courses taught in Spanish: Contemporary Socio-Economic and Political Developments in the Southern Cone, and International Relations of the Southern Cone.

A complete description of the program and application procedures can be obtained from Paul Drake, Center for Latin American and Caribbean Studies, 1208 West California Street, Room 250, Urbana, IL 61801, 333-3182.

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International Agriculture Newsletter

College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

February 1983 No. 57

INTERNATIONAL ACTIVITIES

Rabel J. Burdge, Agricultural Economics and Institute for Environmental Studies, spent part of his recent sabbatical as a Visiting Fellow in the Australian School of Environmental Studies, Brisbane.

Errol D. Rodda, Agricultural Engineering, was a consultant for the World Bank in Hungary from November 15 to December 15.

Miodrag Ristic, Veterinary Pathobiology, met with scientists at the National Institute for Agricultural Research, Maracay, Venezuela, December 3 to 11, and reviewed the progress of research trials for a vaccine against bovine babesiosis. Two UIUC staff members, Sonia Montenegro-James and Mark A. James, both in Veterinary Medicine, are stationed in Venezuela for this project.

D. Homer Buck, Animal Science and Illinois Natural History Survey, was invited by the National Academy of Science to attend the International Conference on Chemistry and World Food Supplies (CHEMRAWN II), Manila, Philippines, and to participate in a postconference workshop on aquaculture and integrated farming, December 6 to 11.

B. Jack Butler, Agricultural Engineering, participated in an agricultural mechanization project for the Egyptian Ministry of Agriculture and USAID during January. He helped test and evaluate a self-propelled field sprayer.

Earl D. Kellogg, International Agriculture, gave presentations on the world food situation at the Illinois Leadership for Agriculture Foundation program at Allerton Park, January 6, and the Illinois Women for Agriculture meeting in Decatur, January 14.

William N. Thompson, Thomas A. McCowen, Carolyn M. Pribble, and Earl D. Kellogg, International Agriculture, and Burton E. Swanson, International Programs and Studies, participated in a Title XII Regional Seminar at Cornell University, January 16 to 18.

Roger R. Yoerger and Errol D. Rodda, Agricultural Engineering, and William N. Thompson, Office of International Agriculture, traveled to Washington, D.C., to discuss USAID's Joint Career Corps, January 14.

Richard E. Ford, Plant Pathology, and Michael E. Irwin, Agricultural Entomology, represented UIUC at the Consortium for International Crop Protection (CICP) Board Meeting held in Berkeley, California, Jan. 20 and 21.

William N. Thompson and Thomas A. McCowen, International Agriculture, will be in Zambia for two weeks beginning February 7 to review the Zambian Agricultural Research and Extension Project (ZAMARE) operations.

Mr. McCowen will also travel to Nairobi, Kenya, to discuss administrative matters concerning the ZAMARE project with USAID/REDSO staff.

Marcos Kogan, Agricultural Entomology, was an invited speaker at the

Brazilian Entomological Congress, Brasilia, the first week of February. He presented papers on soybean insects, sampling techniques, and host-plant resistance. He also traveled to Goiania to finalize arrangements for a grain legumes workshop planned for April, 1983. The workshop is sponsored by the Consortium for International Crop Protection (CICP), INTSOY, EMBRAPA, and the International Institute of Tropical Agriculture (IITA).

John W. Santas, International Agriculture, will participate in a seminar entitled "U.S./Latin American Relations and Resources for Development," February 11 to 19, held at CIAT (Centro Internacional de Agricultura Tropical), Cali, Colombia. This is the third seminar in a series of six for recipients of the Partners of the Americas/Kellogg Foundation Fellowship in International Development.

Dr. Santas will also travel to San Jose, Costa Rica, to discuss soybean development projects with CARE, FAO, and IICA representatives.

VISITORS RECENTLY ON CAMPUS

J. Ritchie Cowan, International Rice Research Institute liaison officer in Indonesia, met with Agronomy and INTSOY staff on December 20.

Loren Schulze, AID/Washington, participated in the annual INTSOY retreat held on January 13 at the Illini Union.

Lowell H. Watts, Director of International Extension and Training at Colorado State University, presented a seminar on January 19 entitled "Some Reflections on Agricultural Knowledge Systems Abroad." He also met with INTERPAKS personnel.

Kim Wilson, Michigan State University Project Leader for MUCIA-USAID/Caribbean Technical Services to Mission

Contract, met with OIA and MUCIA staff and presented a seminar on February 1.

VISITING RESEARCHERS

Young In Lee completed the requirements for the Ph.D. degree in entomology and returned to Korea to resume work at the Crop Improvement Research Center, Suwon.

Mostafa H. El-Kattan, Peace Fellow supported by the government of Egypt and USAID through the America-Mideast Foundation, arrived January 13 to spend ten months working on alcohol fuel production with Marvin P. Steinberg and Joseph Monticalvo, Food Science.

Mohan C. Ghildiyal, FAO Fellow with the Indian Agricultural Research Institute, New Delhi, is working with William L. Ogren, Agronomy, on photosynthesis and photorespiration, January through June.

Also working with Dr. Ogren on photorespiration and photosynthesis is Jun-Ichi Takanashi, National Institute of Agricultural Sciences, Tsukuba, Japan. Dr. Takanashi, who arrived in November, will be at UIUC for one year sponsored by the U.S.-Japan Green Energy Program.

Two researchers arrived in December to spend three months with the Department of Animal Science. Shin-Soek Bae, Department of Animal Science, Chungbuk National University, Korea, is studying animal nutrition under an ongoing UIUC/Chungbuk University exchange and training program.

George M. Hillyer, Deputy Head of Animal Production, Advisory, and Development Department, East of Scotland College of Agriculture, Edinburgh, is working with Robert A. Easter, Aldon H. Jensen, Gilbert R. Hollis, and David P. Holzgraefe on developing computer models for pig production programs.

Geraldo A. Tosello, University of Sao Paulo, Brazil, arrived January 20 to spend three weeks with the Agronomy corn breeding group. Dr. Tosello is in charge of a breeding program to increase oil content of corn.

MONICAL POLICY-PAPER AWARDS

April 18, 1983 is the deadline for entries in the Monical Policy-Paper Prize on Latin America. Undergraduate and graduate students at UIUC are encouraged to submit papers on "Policies for Development of Human Well-Being in Central America." Papers must be between 50 and 60 pages long, and multi-author projects are welcome. One first place prize of \$2,000 and three second place prizes of \$1,000 will be awarded. Details are available from the Center for Latin American and Caribbean Studies, 1208 West California Street, room 250, Urbana, Illinois, 61801, 333-3182.

FOREIGN VISITORS IN 1982

The Office of International Agriculture coordinated itineraries for 177 people from 25 countries in 1982. This number does not include the many visiting scientists who directly contacted faculty members of departments in the College of Agriculture.

OIA TRAINING ACTIVITIES

Zambia

Four more Zambian students, sponsored under the Zambia Agricultural Research and Extension (ZAMARE) project, have been enrolled in U.S. universities for the spring semester: Boniface Mulyate, plant science, University of Maryland, Eastern

Shore; Mick Mwala, plant breeding, University of Missouri; Sanford Susikwana, plant pathology, University of Missouri; and Johnston Kale, crop science, North Carolina State University.

Fifteen students are now enrolled in U.S. universities through the ZAMARE project.

Ivory Coast

Four students from the Ivory Coast, participants in a training project sponsored by the Ivory Coast Ministry of Agriculture and UIUC's Office of International Agriculture, have completed intensive English training and are now enrolled in master's degree programs in the U.S.: Chia Yapi, animal science, UIUC; Abdoulaye Conde and Kouassi Tieha, forestry, State University of New York at Syracuse; and Djokouri Kouassi, statistics, Rutgers University. Through this program, 42 students have completed their degrees, and 19 are currently enrolled in master's degree programs in the U.S.

BOOK REQUEST FROM THE CAMEROONS

Bortabot General Agencies, a non-profit organization which promotes educational activities in the Cameroon, has requested books and journals for libraries. They can be sent to Bortabot General Agencies, P.O. Box 116 Tiko, South West Province, United Republic of Cameroon.

BOOKS SENT TO MT. MAKULA, ZAMBIA

One hundred volumes of journals and books were recently sent to the Mt. Makula Library, Zambia. The items were donated by D. W. Chamberlain, USDA and Plant Pathology (retired), Theodore Hymowitz, Agronomy, James B. Sinclair, Plant Pathology, and O. G. Bentley.

SEMINARS

February 9 Professional Agricultural Communicators for Indonesia - James E. Evans, Agricultural Communications.

4:00 p.m., 426 Mumford Hall.

February 16 Tribal Agriculture in the Eastern Ghats of India - Johannes de Wet, Agronomy.

4:00 p.m., 426 Mumford Hall.

February 23 Land Resettlement in Zimbabwe and Other Reflections on a Sabbatical Leave in Africa - Jean M. Due, Agricultural Economics.

4:00 p.m., 426 Mumford Hall.

March 2 Local Organization and Peasant Participation in Ugandan Agricultural Development Projects - Steven G. Bunker, Sociology.

4:00 p.m., 426 Mumford Hall.

March 9 An Agricultural Sector Assessment in St. Vincent and the Grenadines - presented by project team members: Frederick C. Fliegel, Earl D. Kellogg, Violet M. Malone, Mohamed E. Sarhan, and Earl R. Swanson.

4:00 p.m., 426 Mumford Hall.

March 16 Update on Zambia - William N. Thompson and Thomas A. McCowen, Office of International Agriculture.

4:00 p.m., 426 Mumford Hall.

March 23 The Problems Facing Japanese Agriculture in Dealing With Farmland Fragmentation and High Land Prices - Kenji Horiguchi, Visiting Associate Professor in Agricultural Economics from Tokyo University of Agriculture, Japan.

4:00 p.m., 426 Mumford Hall.

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College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

March 1983 No. 58

INTERNATIONAL ACTIVITIES

R. Lydon Baker, Stanley E. Curtis, and Temple Grandin, Animal Science, participated in the International Stockman's School - International Seminar on Ruminant Production, January 2 to 6, San Antonio, Texas. Dr. Baker presented four papers on beef, sheep, and dairy cattle breeding programs in New Zealand. Dr. Curtis spoke on Measuring an Animal's Environment; Measuring Environmental Stress; Animal Welfare; and Energetics in Cattle Production: Feed and Environment. Ms. Grandin presented papers on livestock psychology and handling facility design; design of corrals, squeeze chutes, and dip vats; handling feedlot cattle; and reducing transportation stress.

Burton E. Swanson, Agricultural Education and Office of International Programs and Studies, attended a review panel on the INTERPAKS (International Programs for Agricultural Knowledge Systems) proposal in Washington, D.C., February 18.

Dr. Swanson will be in Rome from March 15 to April 1 designing an African agricultural education study for FAO.

Luis R. Zavaleta and Michael E. Irwin, Agricultural Entomology, presented the two keynote addresses at the First Integrated Pest Control Congress of Guatemala, held in Guatemala City from February 21 to 24.

Harold E. Kauffman, INTSOY, discussed the International Soybean Center proposal with USAID, USDA, CGIAR, and

World Bank personnel in Washington, D.C., February 24 and 25.

Chester B. Baker and Earl R. Swanson, Agricultural Economics, began a one-month agricultural sector assignment on February 14 in Antigua. This project is coordinated by the Midwest Universities Consortium for International Activities (MUCIA) as part of its Technical Support to Mission contract with the regional USAID office in Barbados.

Lun-Shin Wei, Food Science, will be an external examiner to the Faculty of Food Science and Technology, Universiti Pertanian Malaysia, Serdang, Selangor, Malaysia. Dr. Wei will be in Malaysia from March 17 to April 16.

William N. Thompson, Office of International Agriculture, has been appointed to the Committee on International Affairs for 1983 of the National Association of State Universities and Land-Grant Colleges (NASULGC).

Mark A. James, Veterinary Medicine stationed at the Universidad Centro-occidental Lisandro Alvarado, Barquisimeto, Venezuela, visited UIUC the week of February 11 to review the joint program on bovine anaplasmosis.

VISITING RESEARCHERS

Albert Meijering, Institute of Animal Research 'Schoonord', Zeist, the Netherlands, is working with Daniel Gianola, Animal Science, on genetic

aspects of calving difficulty, and methods for analyzing categorical data in animal breeding. Mr. Meijering, who will be at UIUC until September, can be contacted at 150 Animal Sciences Laboratory, 333-1714.

Greg Chappel, Calala, New South Wales, Australia, is visiting the Animal Science Department from February through April to learn about beef cattle production. Mr. Chappel was awarded this trip for winning an Australian cattle judging contest.

Hans-Erik Uhlin, Department of Economics and Statistics, Swedish University of Agricultural Sciences, Lund, is visiting Agricultural Economics from February 7 to mid-March to do research for his doctoral thesis entitled "The Importance of Technical Change and Farm Size for Productivity in Agriculture." He can be contacted at 302b Mumford Hall.

VISITORS RECENTLY ON CAMPUS

Gabriele Diekert, Department of Microbiology, Phillips University, Marburg, Germany, visited the Microbiology Division of Dairy Science and the Department of Microbiology on February 10 and 11 to discuss the biochemistry of carbon dioxide and carbon dioxide plus hydrogen conversion to acetate by various anaerobic bacteria.

Lars Svensson and Andrus Kangro, Department of Farm Buildings, Swedish University of Agricultural Sciences, Lund, discussed livestock shelter heat exchangers, heat pumps, solar collectors, and computer systems for livestock production with Agricultural Engineering staff on February 17.

VISITORS COMING TO CAMPUS

William Flinn, Executive Director of MUCIA (Midwest Universities Consortium for International Activities) will

visit UIUC on March 8 and 9. His schedule is being arranged by Burton E. Swanson, 3019 Foreign Languages Building, 333-1993.

Dely P. Gapasin, Director, Crop Research Department, Philippines Council for Agriculture and Resources Research (PCARR), will visit UIUC on March 13 to discuss collaborative activities between PCARR and INTSOY. Her schedule is being arranged by Harold E. Kauffman, 113 Mumford Hall, 333-6422.

INTERNATIONAL AGRICULTURE ADVISORY COMMITTEE

The International Agriculture Advisory committee will meet at UIUC on March 16. Members of the committee are: Richard Feltes, Director of Crop Research, Continental Grain Company, Chicago; William Fugate, farmer, Fairbury; Lyle G. Reeser, Agricultural Consultant, Caterpillar Tractor Company, Peoria; Willard Severns, farmer, Moweaqua; James M. Spata, Consultant, Ohio; and Wilbert Stevenson, farmer, Streator.

THIRD WORLD SYMPOSIUM

A symposium entitled "Development Communications in the Third World" will be held at UIUC on April 15, sponsored by the International Colloquium in cooperation with the Institute of Communications Research, MUCIA (Midwest Universities Consortium for International Activities), and the Office of International Agriculture. The symposium will explore and discuss the role of development communications in the Third World as it relates to agriculture, health care delivery and nutrition, and education. Details are available from the International Colloquium, 357 Education Building, 333-4350.

SEMINARS

March 2 Local Organization and Peasant Participation in Ugandan Agricultural Development Projects - Steven G. Bunker, Sociology.
4:00 p.m., 426 Mumford Hall.

March 3 Production Efficiency: Measurement and Use - Hans-Erik Uhlin, Swedish University of Agricultural Sciences.
12:00 noon, 426 Mumford Hall.
Agricultural Economics seminar.

March 4 Peru: Alternative Development Models - Javier Iquiniz, Chair, Department of Economics, Catholic University, Lima, Peru.
3:30 p.m., 207 Gregory Hall.
Sponsored by the Center for Latin American and Caribbean Studies.

March 8 MUCIA Activities - William Flinn, Executive Director of MUCIA.
4:00 p.m., General Lounge, Illini Union.

March 9 An Agricultural Sector Assessment in St. Vincent and the Grenadines - presented by project team members: Frederick C. Fliegel, Earl D. Kellogg, Violet M. Malone, Mohamed E. Sarhan, and Earl R. Swanson.
4:00 p.m., 426 Mumford Hall.

March 11 Agricultural Sector Assessment in St. Vincent and the Grenadines - Earl D. Kellogg, International Agriculture.
Noon, 449 Administration Building.
Latin American Studies Brown-Bag Colloquium Series.

March 16 Update on Zambia - William N. Thompson and Thomas A. McCowen, Office of International Agriculture.
4:00 p.m., 426 Mumford Hall.

March 23 The Problems Facing Japanese Agriculture in Dealing with Farmland Fragmentation and High Land Prices - Kenji Horiguchi, Visiting Associate Professor in Agricultural Economics from Tokyo University of

Agriculture, Japan.
4:00 p.m., 426 Mumford Hall.

April 6 Observations on Agriculture in Northeast China - Robert W. Howell, Agronomy emeritus.
4:00 p.m., 426 Mumford Hall.

April 8 Pioneering in the Brazilian Amazon - Judith Lisansky, Anthropology.
Noon, 449 Administration Building.
Latin American Studies Brown-Bag Colloquium Series.

April 22 The Development Bank as Entrepreneur: The Case of Nacional Financiera, S.A., Mexico - Miguel Ramirez, Economics.
Noon, 449 Administration Building.
Latin American Studies Brown-Bag Colloquium Series.

CONFERENCE ON LATIN AMERICA

"Forces of Change in Latin America: The Future of Inter-American Relations" is the topic of the 15th Annual Quad-Cities World Affairs Conference, March 25 and 26, 1983, Moline, Illinois. Advanced registration is required. Additional information is available from J. Terry Iversen, 205 Arcade Building, 333-1465.

JOINT CAREER CORPS POSITIONS AVAILABLE IN USAID

Five new positions in the Joint Career Corps program of USAID have been announced.

Three positions are for Yaounde, Cameroon: Agricultural Educations/Extension Specialist, 2 years; Agricultural Economist, 2 years; and Educational Planner, 2 years.

Two positions are for Lima, Peru: Senior Agricultural Economist, 2 years minimum; and Senior Tropical Agronomist, 2 years minimum. Details are available from Earl D. Kellogg, 113 Mumford Hall, 333-6337.

The College of Agriculture and the College of Veterinary Medicine welcome the following new foreign graduate students to the University of Illinois at Urbana-Champaign.

AGRICULTURAL ECONOMICS: Dimitrios Baroutis, Greece, agricultural finance; Tauhidi Bello, Nigeria, agricultural finance; Rakia Moalla, Tunisia, international agricultural development; Zacch Olorunnipa, Nigeria, marketing and agricultural prices; J. Yanquoi Flomo Sarlie, Liberia, agricultural finance.

AGRICULTURAL ENGINEERING: Adenuga O. Atewologun, Nigeria, structures and environment; Cephas Kennedy M. Msipa, Zimbabwe, power and machinery.

AGRONOMY: Damares de Castro Monte, Brazil, plant genetics.

ANIMAL SCIENCE: Yanming Han, People's Republic of China, poultry nutrition; Oscar Izquierdo, Mexico, animal nutrition; Pawel Kindler, Poland, aquatic biology; James Smith, Guyana, world animal production; Chia Yapi, Ivory Coast, animal breeding.

FOOD SCIENCE: Bassam Annous, Lebanon, dairy science; Chunggyu Kim, Korea, food microbiology; Jose Roho, Venezuela, food chemistry.

HORTICULTURE: Ximin Deng, People's Republic of China, pomology; Farshid Parivar, Iran, postharvest physiology of flowers; Moosa Yahya, Iraq, postharvest physiology of flowers.

HUMAN RESOURCES AND FAMILY STUDIES: Leslie Helyar, Canada, foods and nutrition; Young-Kyung Lew, Korea, apparel design.

PLANT PATHOLOGY: Mohammad B. Al-Heeti, Iraq, soybean diseases; U. B. Gunasinghe, Sri Lanka, virus epidemiology; JuJu Manandhar, Nepal, soybean fungi.

VETERINARY MEDICINE: Fun-in Weng, Taiwan, veterinary pathobiology.

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International Agriculture Newsletter

College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

April 1983 No. 59

INTERNATIONAL ACTIVITIES

George K. Brinegar, Agricultural Economics, left in mid-February for a six-month sabbatical in Australia.

Burton E. Swanson, Agricultural Education and Office of International Programs and Studies (OIPS), was at the Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia, from February 28 to March 2 to design an evaluation program for UNDP's root and tuber project.

Lowell D. Hill, Agricultural Economics, and Marvin R. Paulsen, Agricultural Engineering, conducted a study of grain harvesting and marketing practices in Argentina from March 8 to April 2. They collected data and evaluated marketing procedures on pricing, transportation, marketing efficiency, grade standards, export rules, and government policies. In addition, they collected samples of corn from country and export elevators, and from ocean vessels loaded at Argentine ports. This work is part of a continuing program of evaluating alternative marketing systems, grading procedures, and quality characteristics of corn and soybeans in major exporting countries.

John W. Santas, International Agriculture, and Tim Koehnen, Vo-Tech. Education, participated in an International Science and Education Council training conference, Washington, D.C., the week of March 14. Dr. Santas also discussed training projects with MASI, Ivory Coast Embassy, and international training staff in

USAID and OICD/USDA, and met with Zambian Agricultural Research and Extension (ZAMARE) students enrolled at the University of Maryland, Eastern Shore.

Richard E. Hageman, Agronomy, will be in Tokyo, Sapporo and Fukuoka, Japan, during April for the final exchange of scientists in the U.S.-Japan cooperative project on carbon-nitrogen interaction in crop productivity.

Sam H. Johnson, Agricultural Economics, will leave April 16 for a three-week trip to Asia. He will discuss graduate research possibilities at the Asian Vegetable Research and Development Center (AVRDC), Taiwan; complete a research project on the Nam Pong water basin, Northeast Thailand, at Kasetsart and Khon Kaen universities; and meet with Ford Foundation and USAID personnel in New Delhi, India. Dr. Johnson will also attend a meeting on agroecosystem analysis at Imperial College, London, England, and present a paper entitled "Externalities in Irrigated Agriculture" at a World Bank workshop in Washington, D.C.

Harold E. Kauffman, INTSOY, James B. Sinclair, Plant Pathology, and Michael E. Irwin, Jenny Kogan, and Marcos Kogan, Agricultural Entomology, will participate in a Workshop on Integrated Pest Control for Grain Legumes, Goiania, Brazil, April 4 to 8. Jenny Kogan will present a paper on soybean insect research information and international cooperation in grain legume protection, and Marcos Kogan will present papers on sampling

techniques and integrated pest management for soybeans. The workshop is sponsored by CICP, FAO, EMBRAPA, IITA, and INTSOY.

Dr. Kauffman and Dr. Sinclair will also discuss collaboration on soybean research with EMBRAPA, CNPSoja, and University of Londrina staff.

Sidney L. Spahr, Dairy Science, and Hoyle B. Puckett, USDA/Agricultural Engineering, will participate in the Second International Livestock Mechanization Symposium, April 20 to 22, Wageningen, the Netherlands. Dr. Spahr will present two papers: "Data-Base-Management System Approach to Microcomputer Management of an Individual Cow Data Base," and "Analysis of On-Line Conductivity Data." Prof. Puckett will present a paper entitled "Real Time Measurement of Milk Conductivity."

Curtis M. Wilson, USDA/Agronomy, will review the USDA-sponsored project "Breeding Maize for Improved Protein Quality and Increased Oil Content" at the Maize Research Institute, Zemun-Belgrade, Yugoslavia, April 5 to 20. Dr. Curtis will also visit maize protein research laboratories at the University of Milan and the Istituto Sperimentale Cerealicoltura, Italy, and the Institut National de la Recherche Agronomique (INRA), Versailles, France.

William N. Thompson and Earl D. Kellogg, OIA, were in Washington, D.C., March 30 and 31. They attended a meeting of the Board for Food and Agricultural Development (BIFAD), discussed cooperative programs with representatives of the Association of Southeast Asian Nations (Thailand, Philippines, Malaysia, Singapore, and Indonesia), and conferred with USAID personnel on the upcoming project in Pakistan.

Dean J. C. Claar, College of Agriculture, and Michael E. Irwin, Agricultural Entomology, will be in Panama from April 16 to 22 as part of a

fact-finding trip to identify developmental needs of Panama. Areas in agriculture that they will examine include forestry, aquaculture, alternate sources of protein, marine sciences, pest management, extension, and animal health.

EXCHANGE STUDENTS FROM AUSTRALIA

Sharon Seymour and Melissa Sweet, undergraduate students at Muresk Agricultural College and Western Australia Institute of Technology (WAIT), are studying agricultural communications this semester under a new exchange program between UIUC and WAIT. The two visitors are second-year students in rural journalism.

VISITING RESEARCHER

Shlomo Grossman, biochemist, Bar-Ilan University, Ramat-Gan, Israel, will be working on lipid oxidizing systems in soybeans with Barbara P. Klein, Foods and Nutrition, from May through September. Dr. Grossman can be contacted at 461 Bevier Hall, 333-1325.

VISITORS RECENTLY ON CAMPUS

Micha Roumiantzeff, Institut Merieux in Lyon, France, and coordinator of a joint research program on malaria vaccine development with UIUC, met with Miodrag Ristic, Veterinary Pathobiology, and the malaria research staff from March 2 to 4.

Jake Halliday, Director of the NIFTAL project, University of Hawaii, discussed cooperative research activities in microbiology with William N. Thompson and Thomas A. McCowen, OIA, Joseph A. Jackobs, Agronomy, and Harold E. Kauffman, INTSOY. Seydou Sano, NIFTAL microbiologist, arrived in Zambia in March to spend 30 months at the Mt. Makulu Research Station, Chilanga, with the ZAMARE team. He

MIDWEST REGIONAL SYMPOSIUM

DEVELOPMENT COMMUNICATIONS IN THE THIRD WORLD

University of Illinois at Urbana-Champaign

April 15, 1983

Room 269-273 Illini Union

Sponsored by
The International Colloquium

in cooperation with
The Institute of Communications Research
Midwest Universities Consortium for International Activities
Office of International Agriculture



The primary goal of the Symposium is to provide an opportunity for participants to explore and discuss the role of development communications in the Third World as it relates to agriculture, health care delivery, nutrition, and education.

MIDWEST REGIONAL SYMPOSIUM DEVELOPMENT COMMUNICATIONS IN THE THIRD WORLD SCHEDULE OF ACTIVITIES

Thursday, April 14

8:00 pm Buffet reception for Dr. McNany and Symposium Participants at 1913 Galen Drive, Champaign

11:45 Luncheon Break

Chair, Afternoon Session: Joseph Seepersad

Friday, April 15

Room 269-273 Illini Union

8:30 am Registration

Chair, Morning Session: Robert D. Porter

9:00 Vickie A. Sigman: Introductory Remarks

Keynote Address

9:10 Emile G. McNany: From Modernization to Dependency and Beyond: Theory and Practice in Communication for Social Change in the 1980s

Response to Keynote

9:50 Stephen G. Bunker and James F. Evans: Discussants

10:15 Open Discussion

10:30 Coffee Break

Political Dimensions of Development Communications

10:45 Cristin D. Merck: Effects of the Caribbean News Agency on the Regional Flow of News

11:15 Carla W. Heath: Telecommunications in Development in Africa

1:30 pm Candice Francis, Omar Oliveira, Molly Rose Teuke, Sonja Williams and Drew McDaniel: Self Interest as a Mediating Variable in the Effectiveness of a Media Campaign for Food Consumption in Belize

2:05 Kathleen Goodman: Letters from Teachers: A report on the Feedback from Participants in the Radio Based Teacher Training Project in Nepal

2:40 Lynda Harriman: Family Planning Education in Developing Nations

3:10 Coffee Break

3:30 Shashi R. Pandey and Ashok Bhargava: The Role of Development Communication in Rural Science Education in India

4:00 Michael L. Braden: Concluding Remarks

4:30 Close

SEMINARS

April 6 Observations on Agriculture in Northeast China - R. W. Howell, Agronomy emeritus.
4:00 p.m., 426 Mumford Hall.

April 11 World Bank and Agricultural Development: A Personal Perspective - W. Mark Wilson, World Bank.
11:00 a.m., 426 Mumford Hall.

April 15 Pioneering in the Brazilian Amazon - J. Lisansky, Anthropology.
noon, 449 Administration Building.
Latin American Studies Colloquium.

April 18 Activities in the Farm Buildings Investigation Unit - Seaton Baxter, Head of the Scottish Farm Buildings Investigation Unit.
1:00 p.m. 240 Agricultural Engineering Building.

April 19 Design Strategies for Animal Faculties - Seaton Baxter, Head of the Scottish Farm Buildings Investigation Unit, Aberdeen.
11:00 am.m., 121 Animal Sciences Lab.

April 20 The Illinois Department of Agriculture's Role in Foreign Market Development - Richard Vogen, International Marketing Coordinator of the Illinois Department of Agriculture.
4:00 p.m., 426 Mumford Hall.

April 22 The Development Bank as Entrepreneur: The Case of Nacional Financiera, S.A., Mexico - Miguel Ramirez, Economics.
noon, 449 Administration Building.
Latin American Studies Colloquium.

April 27 Agricultural Sector Assessment of Antigua and Barbuda - Chester E. Baker and Earl R. Swanson, Agricultural Economics.
4:00 p.m., 422 Mumford Hall.

April 29 A Comprehensive Crop Protection program for Peru: Frustration and Political Reality - Michael E. Irwin, Agricultural Entomology.
noon, 449 Administration Building.

Latin American Studies Colloquium.

May 4 Local Organization and Peasant Participation in Ugandan Agricultural Development Projects - S. G. Bunker, Sociology.
4:00 p.m., 426 Mumford Hall.

TITLE VI LATIN AMERICAN FELLOWSHIPS

April 11 is the application deadline for 1983-1984 Title VI Latin American language and area studies fellowships. Eligibility requirements include graduate student status at UIUC in Latin American language and area studies or international aspects of professional study combined with Latin American language and area courses. Further information is available from the Center for Latin American and Caribbean Studies, 1208 West California Street, Room 250, Urbana, 333-3182.

IREX DEVELOPMENTAL FELLOWSHIPS

April 15 is the application deadline for the International Research and Exchanges Board (IREX) program of graduate and postdoctoral fellowships to strengthen Soviet and East European studies in the U.S. Applicants from all disciplines are eligible. Further information is available from Carolyn M. Pribble, 113 Mumford Hall, 333-6337, or directly from IREX, attn. Eileen Viani, 655 Third Avenue, New York, NY 10017, (212) 490-2002.

SENIOR SCHOLAR FULBRIGHT AWARDS

Application deadlines for 1984-1985 awards are June 15 for American republics, Australia, and New Zealand; and September 15 for Africa, Asia, Europe, and the Middle East. Senior scholar Fulbright awards for university teaching and postdoctoral research are offered in all academic fields for periods of 2 to 10 months in more than 100 countries. Applications are available from CIES, 11 Dupont Circle, Suite 300, Washington, D.C., 20036.

will implement a research program on biological nitrogen fixation.

Richard Bernsten, Winrock International Livestock Research and Development Center, Morrilton, Arkansas, met with OIA staff from March 7 to 9 to discuss small computer activities appropriate for less developed countries, possible cooperative work between Winrock and UIUC on farming systems, and program developments in international agriculture.

Richard Feltes, Director of Crop Research, Continental Grain Co., Chicago, presented a seminar on March 15 on a recent Brazilian crop survey, and on the PIK program. Mr. Feltes is a member of the International Agriculture Advisory Committee.

Barbara Sohm Ekbohm, Department of Plant and Forest Protection, Swedish University of Agricultural Sciences, Uppsala, met with Agricultural Entomology, Economic Entomology, and Plant Pathology staff the week of March 21.

Klaus Bustrup, Vice President of the Danish Agricultural Council and Denmark's representative to the European Economic Community's Committee of Agricultural Organizations, visited UIUC on March 25 and presented a seminar on US/EEC agricultural trade relations. He was accompanied by Ron Soriano, EEC/Washington.

Marcelo Regunaga, Director of the Economic Division of the Argentine Grain Board and Associate Professor of rural administration, University of Buenos Aires, visited the Department of Agricultural Economics on March 28 and 29. His trip was sponsored by the U.S. Information Agency, and coordinated by Meridian House International, Washington, D.C.

VISITORS COMING TO CAMPUS

Seaton Baxter, Head of the Scottish Farm Buildings Investigation Unit at

Aberdeen, will visit Agricultural Engineering and Animal Science on April 18 and 19. Mr. Baxter will present two seminars (see seminar listing). His schedule is being arranged by Arthur J. Muehling, 212 Agricultural Engineering Building, 333-1313.

Zhang Piliu, Director, and Zhao Zhi-long, Deputy Director, Institute of Animal Husbandry, Beijing, and Fan Zhangming, swine breeding specialist from the Chinese Academy of Agricultural Sciences, People's Republic of China, will discuss cooperative research with Daniel Gianola, Leif Thompson, and others in Animal Science from April 5 to 7.

Hernan Vallejo, President of the Colombian National Cattle Growers Association and 1983 Eisenhower Fellow from Colombia, will visit UIUC from April 10 to 12 to see how the College of Agriculture, the Cooperative Extension Service, and the Cooperative State Research Service fit together in a land-grant institution. John W. Santas, OIA, 113 Mumford Hall, 333-3638, is arranging his schedule.

Santosh Shahra, Director of Ruchi, Ltd., India, will discuss soy beverage preparation with Food Science faculty on April 19.

Florence Chanakira, Department of Crop Science, University of Zimbabwe, Harare, will study stem rot in soybeans, peanuts, and sunflowers with Barry J. Jacobsen, Plant Pathology, May 2 to 6. Ms. Chanakira is sponsored by the USAID/Zimbabwe Development Project.

H. A. Al-Jibouri, Senior Officer, Field Food Crops Group, Plant Production and Protection Division, FAO/Rome, will discuss FAO/INTSOY collaboration with INTSOY staff on April 18 and 19. To meet with Dr. Al-Jibouri contact John W. Santas, 113 Mumford Hall, 333-3638.

NEW UNIVERSITY DEVELOPMENT PROJECT IN PAKISTAN

UIUC has been selected to assist the University of Agriculture, Northwest Frontier Province, Peshawar, Pakistan, through a USAID-sponsored university development project. Southern Illinois University-Carbondale will collaborate in this effort. The USAID/Pakistan decision followed a visit of the site-visit team to UIUC, March 1 to 3. The design phase of the project, to be carried out from mid-April to mid-June, will be followed by the long-term implementation phase of the project.

IBPGR GRANT TO INTSOY

The International Board for Plant Genetic Resources (IBPGR) has granted INTSOY \$29,000 to aid in the documentation of soybean germplasm collections around the world. The project

will include further documentation of the USDA germplasm collection and the collation and publishing of information from collections in other countries.

INDIA RESEARCH FELLOWSHIPS

July 1, 1983, is the application deadline for 1984-1985 Advanced Research Fellowships in India. Twelve long-term and nine short-term research awards, without restriction to subject area, are offered by the Indo-U.S. Subcommittee on Education and Culture. Scholars and professionals who have limited or no experience in India are especially encouraged to apply. Application forms and further information are available from the Council for International Exchange of Scholars, attention: Indo-American Fellowship Program, 11 Dupont Circle, Suite 300, Washington, D.C., 20036, (202) 833-4985.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign, 61801; Bonnie Irwin, editor. Faculty and Departments are encouraged to submit Newsletter items. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

**Office of International Agriculture
University of Illinois at Urbana-Champaign
113 Mumford Hall
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International Agriculture Newsletter



College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

May 1983 No. 60

INTERNATIONAL ACTIVITIES

Two faculty members in Horticulture have received research awards from the International Dwarf Fruit Tree Association. Robert M. Skirvin will study the isolation of unique forms of apple rootstock from single cell cultures, and Roy K. Simons will study the effect of stock scion relationships on translocation of nutrient elements, especially calcium.

Steven M. Haber, Plant Pathology, collected geminivirus samples and lectured at the University of Puerto Rico, Mayaguez, Feb. 21 to March 9.

Donnell R. Hunt, Agricultural Engineering, presented two talks in a special lecture series at the University of Alberta, Edmonton, Canada, April 11 and 12.

Arthur J. Muehling, Agricultural Engineering, delivered the opening address at the Guelph Pork Symposium, Ontario, Canada, April 11 and 12.

Roger R. Yoerger, Agricultural Engineering, participated in the International Conference on Agricultural Mechanization, Zaragosa, Spain, April 13 to 15.

Jack R. Harlan, Agronomy, was in Amman, Jordan, from April 4 to 10 at the invitation of the Jordanian Department of Antiquities. He presented a paper entitled "The Early Bronze Age Environment of the Southern Ghor and Moab Plateau" at the symposium on Jordanian Environment: Geographical and Historical.

Theodore R. Peck, Agronomy, will be in Europe from April 26 to May 11 to develop a course syllabus and prepare a report for the Association of Illinois Soil Testers. He will visit the Rothamsted Agricultural Experiment Station, England, the Netherlands Soil Testing Project, Wageningen, and the Buntehoff Agricultural Research Station, Hannover, Germany. This trip is part of his sabbatical leave.

Erwin Small, Veterinary Clinical Medicine, was an invited speaker at the Voorjaarsden (Dutch Congress) sponsored by the Royal Netherlands Veterinary Association and the Netherlands Small Animal Veterinary Association, Amsterdam, April 12 to 14. He spoke on liver diseases, dermatology, and small animal pediatrics. Dr. Small also lectured at the Utrecht Veterinary College.

Errol D. Rodda, Agricultural Engineering, will spend part of his sabbatic leave at the Northeast Agricultural College, Harbin, People's Republic of China, May 15 to August 15. He will lecture on grain drying and storage, and on alternate energy research. Dr. Rodda will also advise on research needs. Erica Rodda will tutor spoken English to PRC study abroad candidates.

Donald L. Uchtmann, Agricultural Economics, will present an invited paper entitled "Agricultural Credit Laws in the United States" at the 12th European Agricultural Law Congress and Colloquium, to be held in Ferrara, Italy, May 11 to 14.

Munir Cheryan, Food Science, will present an invited paper entitled "Fouling Characteristics of Hollow Fibre and Spiral Wound Ultrafiltration Modules: A Comparative Study of the Behavior of Skimmilk and Acid Whey" at the biannual conference of the International Circle of Dairy Research Leaders (ICODRL), Amsterdam, the Netherlands, May 24 to 27. Dr. Cheryan will also attend the First International Congress and Fair for Food Manufacturing and Processing, Cologne, Germany, May 29 to June 1.

Stanley E. Curtis, Animal Science, will be in Europe for three weeks beginning May 10. He will present an invited paper on airborne microbes as related to swine health at the annual hygiene conference in Leipzig, East Germany, and meet with veterinary faculty at the State University in Utrecht and the Agricultural University at Wageningen, the Netherlands. In addition, Dr. Curtis will meet with researchers at the Station for Virology and Immunology Research, Thiverval-Grignon, and the Station for Swine Production Research, L'Hermitage, France.

PAKISTAN PROJECT DESIGN TEAM CHOSEN

Twenty-one UIUC and SIU-C (Southern Illinois University at Carbondale) faculty will participate in the design phase of the USAID-sponsored university development project for the University of Agriculture, Peshawar, Northwest Frontier Province, Pakistan. The design phase will be carried out from mid-April to mid-June. Team members, their affiliations, and project responsibilities are:

William N. Thompson, UIUC Office of International Agriculture, team leader and institution development
Thomas A. McCowen, UIUC Office of International Agriculture, administration and fiscal support;
Ann M. Settle, UIUC Office of International Agriculture, data and word processing;
William Doerr, SIU-C Assistant Dean of Agriculture, curriculum;
Sam H. Johnson, UIUC Agricultural Economics, research management;
Walter J. Wills, SIU-C Agricultural Economics, economics;
Andrew J. Sofranko, UIUC Agricultural Economics, rural sociology;
T. Roy Bogle, UIUC Cooperative Extension Service, extension;

Gary V. Johnson, UIUC Institute of Environmental Studies, mathematics communications and statistics;
John H. Behrens, UIUC Agricultural Communications, learning resources center;
Burton E. Swanson, UIUC International Agricultural Education, continuing agricultural education;
Howard H. Olson, SIU-C International Agriculture and Dairy Science, animal sciences production;
Borje K. Gustafsson, UIUC Veterinary Clinical Medicine, animal sciences health;
Edward J. Armbrust, UIUC Agricultural Entomology, entomology;
James B. Sinclair, UIUC Plant Pathology, plant pathology;
Russell T. Odell, UIUC Agronomy, soil science;
James O. Curtis, UIUC Agricultural Engineering, agricultural engineering;
Ray A. Speckman, UIUC Food Science, food technology and agricultural chemistry;
Herbert Portz, SIU-C Agronomy, agronomy and breeding;
Daniel F. Dayton, UIUC Horticulture, horticulture;
J. B. Claar, UIUC Dean of Agriculture, administration.

VISITORS COMING TO CAMPUS

Andre Louw, senior manager for agricultural development, SANTAN Bank, Johannesburg, South Africa, will meet with Agricultural Economics faculty and tour local credit agencies, May 3 to 5. Dr. Louw's schedule is being arranged by Allan G. Mueller, 450 Mumford Hall, 333-0753.

A team of five scientists from the Institute of West Asian and African Studies of the Chinese Academy of Social Sciences, People's Republic of China, will visit UIUC from May 8 to 10 for an overview of African studies research and programs. Their trip is sponsored by the Ford Foundation. Further information is available from Charles C. Stewart, African Studies Program, 1208 W. California Street, 333-6335.

VISITORS RECENTLY ON CAMPUS

Dario Cortez, Linguistics, L. A. Nelson, Agricultural Statistics, and H. Doug Gross, Agronomy, North Carolina State University at Raleigh, visited UIUC on March 28 to get an overview of campus international activities. Dr. Gross met with William N. Thompson, Earl D. Kellogg, and Thomas A. McCowen, Office of International Agriculture.

Dragon Negovanovic, Serbian Institute for Application of Science to Agriculture, Belgrade, Yugoslavia, discussed intensive feeding of bulls, waste removal, cattle nutrition, and extension service activities with Larry L. Berger, Animal Science, and Joseph A. Jackobs, Agronomy, April 1 to 3.

Asina Sibetta, Training Officer with USAID/Lusaka, Zambia, met with Office of International Agriculture staff and UIUC admissions officers on April 4. On April 5 and 6 she traveled with Carolyn M. Pribble, OIA, to Southern Illinois University-Carbon-

dale, to meet with ZAMARE sponsored students, their advisers, and SIU-C admissions officers.

R. Ramamurthi, professor and head of the Department of Zoology, Sri Venkateswara University, Tirupati, India, met with William N. Thompson, OIA, on April 5. Dr. Ramamurthi was accompanied by Robert C. Hiltibran, Illinois Natural History Survey and Agronomy emeritus.

Lowell H. Watts, International Extension and Training Programs, Kenneth Nobe, Department of Economics, and W. Brown, Plant Pathology, Colorado State University, visited UIUC on April 7 and 8. They discussed an upcoming conference on the role and constraints of extension in agricultural development with Eldon L. Johnson, INTERPAKS. Sponsored by INTERPAKS and CSU, the conference will be held in Colorado in July of 1983.

Ulf Renborg, Dean of the Swedish University of Agricultural Sciences, Uppsala, discussed the program of the 19th International Conference of Agricultural Economists, to be held in Spain in 1985, with Agricultural Economics faculty from April 8 to 11. Dean Renborg is vice president in charge of the conference program.

Graham French, National Association of the Partners of the Alliance, Washington, D.C., was on campus April 13 to discuss the U.S.-Brazilian university linkage program. He met with John Thompson, Geography, Werner Baer, Latin American and Caribbean Studies Center, and Earl D. Kellogg and John W. Santas, Office of International Agriculture.

Gradon R. Johnstone, Tasmanian Department of Agriculture, Hobart, Australia, discussed plant virus epidemiology research with Plant Pathology and Agricultural Entomology staff from April 13 to 15. Dr. Johnson also presented a seminar on apple and insect transmission of viruses.

VISITING RESEARCHERS

Toru Kawakami, Training Affairs Department of the Japanese International Cooperation Agency (JICA), Tokyo, arrived at UIUC on April 5 for a two-year training program on soybeans and field crops.

Ranjit Fernando, Sri Lanka, began work in January with Sidney L. Spahr, Dairy Science, on detecting mastitis through electrical conductivity.

SEMINARS

May 4 Local Organization and Peasant Participation in Ugandan Agricultural Development Projects - Stephen G. Bunker, Sociology.
4:00 p.m., 426 Mumford Hall.

May 6 The Role of Veterinary Medicine in the Animal Agriculture of Kenya - Garrett R. Oetzel, Veterinary Clinical Medicine.
Noon, room 250 Large Animal Clinic.

FULBRIGHT AWARDS IN AGRICULTURE

June 15, 1983, is the application deadline for Fulbright senior scholar awards for Latin America, Australia, and New Zealand. Awards available in agriculture include:

Brazil: four awards in food sciences and nutrition, University of Campinas.

Colombia (Spanish required): agricultural economics; food processing; plant science.

Ecuador (Spanish required): agricultural economics at Fundacion Natura.

Peru (Spanish required): appropriate technology.

Australia: animal genetics at CSIRO.

Further information about these awards is available from Carolyn M. Pribble, 113 Mumford Hall, 333-6337.

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International Agriculture Newsletter



College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

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UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN

June 1983 No. 61

INTERNATIONAL ACTIVITIES

Three new members have been added to the Pakistan Project Design Team for the University of Agriculture, Peshawar. They are: Mary A. Keith, UIUC Foods and Nutrition, Violet M. Malone, UIUC Cooperative Extension Service, and Lawrence P. Bontempo, telecommunications consultant, Fort Collins, Colorado.

A pilot study on controlling leptospirosis in domestic animals in Jamaica, prepared by Lyle E. Hanson, Veterinary Microbiology, for the Pan American Health Organization, has led to a US\$330,000 project in Jamaica. Dr. Hanson is currently serving as an adviser on the new project and will also be assisting in the development of a second project to control leptospirosis in humans.

Marvin P. Bryant, Microbiology Division of Dairy Science, was in the Republic of South Africa during April. He chaired the session on "Limitations of Rumen Fermentations" at the Symposium on Herbivore Nutrition in the Subtropics, Pretoria; presented seminars at the University of Cape Town, the University of the Orange Free State, the University of Stellenbosch, and CSIR, Pretoria; and

visited the National Chemical Laboratory, Pretoria.

Miodrag Ristic, Veterinary Pathobiology, visited the Institute Merieux, Lyon, France, from April 18 to 29. He discussed joint research on malaria vaccine development, and plans for the upcoming Second International Conference on Malaria and Babesiosis, Annecy, France, September 19 to 22, 1983. Organized by UIUC, the University of Grenoble, France, and the Institute Merieux, the conference is sponsored by USAID, the U.S. Army Research and Development Command, the Rockefeller Foundation, and the World Health Organization.

William M. Sager, Cooperative Extension Service, Eureka, returned April 26 from a 15-day assignment at the Universidad Tecnologica del Sur at Azua, Dominican Republic. He lectured in Spanish to students and faculty of UTESUR about principles of technology transfer. The trip was sponsored by the Rotary International 3H Program--Health, Hunger, Humanity.

Jean M. Due, Agricultural Economics, represented UIUC at a MUCIA (Midwest Universities Consortium for International Activities) meeting in Columbus, Ohio, April 18 to 20.

J. B. Claar, Office of International Agriculture, traveled in Asia during May. He met with government, UNDP, FAO, and Kasetsart University officials in Bangkok, Thailand, presented a paper at the International Conference on Extension and Rural Development Strategies in Kuala Lumpur, Malaysia, and served as an administrative adviser on the Pakistan Design Team Project, Peshawar.

John W. Santas, OIA, served on an ad hoc review panel to advise BIFAD's Joint Committee on Agricultural Research and Development (JCARD) on ways to strengthen AID's participant training programs, Washington, D.C., May 16.

Marvin P. Steinberg, Food Science, was in France from May 14 to 22. He served as an external examiner at the Dairy Center, Institut National Polytechnique de Lorraine Ecole, Nancy, and presented several graduate seminars. He also discussed bound water research with Prof. D. Simatos, Head of the School of Biology and Nutrition, Dijon. Dr. Steinberg then traveled to Israel. He presented seminars at the Volcani Research Center, Tel Aviv, and at the Israel Institute of Technology, Haifa, wrote a BARD research proposal on animal waste conversion with Gideon Oren, University of the Negev, Beer Sheva, and visited the Department of Biology at the Hebrew University, Jerusalem.

David H. Baker, Animal Science, made two presentations at the Elanco Coccidiosis Conference, Mexico, May 25 to 30. He spoke on nutrition-parasite interrelationships and anticoccidials for poultry.

Michael E. Irwin, Agricultural Entomology, participated in discussions on implementing crop protection projects in Central America and Panama held in Turrialba, Costa Rica, May 21 to 27. The discussions were sponsored by USAID and the Consortium for International Crop Protection, CICP.

Sandra Brown, Forestry, will be in Costa Rica from June 3 to 26 to sample soils under different land uses to determine changes in the soil organic carbon pool as a result of tropical forest conversion. This trip is part of a project on the role of tropical forests in the global carbon cycle.

Jean Treloggen Peterson, Human Development and Family Ecology, was awarded a Hewlett Foundation Grant. During June and July she will survey Philippine households to collect data on sex-role complementarity, life cycles, and household strategies.

Earl D. Kellogg, Thomas A. McCowen, Carolyn M. Pribble, and John W. Santas, OIA, will attend the AUSUDIAP (Association of United States University Directors of International Agricultural Programs) annual meeting, June 21 to 23, at the Tuskegee Institute. Dr. Kellogg will present a paper entitled "International Studies and the Professional Agriculturalist."

David L. Thomas, Animal Science, was an invited speaker at the Prolific Sheep Breeds Workshop, Edinburgh, Scotland, July 7 to 9. He will make a presentation on UIUC research in selection studies for reproduction rates in sheep. Dr. Thomas will also visit the Hill Farming Research Organization, Rowett Research Institute, East of Scotland College of Agriculture, and the Animal Breeding Research Organization, all in Scotland, the Meat and Livestock Commission, England, and the Wales Agricultural College, Bangor.

David L. Thomas, Harold W. Gonyou, Joseph M. Stookey, Thomas E. Long, and Chia V. Yapi, Animal Science, will attend the regional technical committee meeting of NC-111, Increased Efficiency of Lamb Production, Ottawa, Canada, June 15 to 18.

VISITING RESEARCHER

Lea Fish, Kimron Veterinary Institute, Bet Dagan, Israel, arrived May 10 to spend four weeks in Veterinary Medicine. She will work with Miodrag Ristic's team on bovine Babesia research.

VISITORS COMING TO CAMPUS

Roy E. Gaunt, Senior Lecturer in Plant Pathology, Lincoln College, Canterbury, New Zealand, will visit with Plant Pathology faculty from June 30 to July 6.

Mehmet Bulbul, Professor of Agricultural Economics at Ankara University, Turkey and currently a visiting scholar at Cornell University, will discuss agricultural finance, credit needs, and investments with Agricultural Economics faculty from June 4 to 11. His schedule is being planned by Peter J. Barry, 307 Mumford Hall, 333-1827.

Masami Toi, Professor of Agricultural Economics at Kansai University, Osaka, Japan, will visit UIUC the week of June 13 to discuss the production and marketing of corn. John W. Santas, OIA, 113 Mumford Hall, 333-3638, is arranging his schedule.

VISITORS RECENTLY ON CAMPUS

Michael Bernon, French Scientific Attache to the U.S., discussed genetic engineering and biotechnology with Robert M. Skirvin and M. Kouider, Horticulture, and met with David B. Dickinson, Constantin A. Rebeiz, and Herbert J. Hopen, Horticulture; Donald A. Holt and Jack M. Widholm, Agronomy; Raymond G. Cragle, Agricultural Experiment Station; and Marvin P. Steinberg, Food Science, on March 16. Dr. Bernon is interested in establishing formal research ties between UIUC and several stations of the Institut National de Recherche

Agronomique (INRA) in France.

Daniel Fau, Center for Nutrition Research, Meudon, France, met with James L. Robinson, David H. Baker, John A. Milner, and other faculty and staff in Nutritional Sciences on April 18. Dr. Fau presented a seminar on metabolic consequences of an excess of dietary methionine.

Mary Kurban, a Ph.D. candidate at the University of Gent, Belgium, visited with plant pathologists and horticulturalists during the week of April 18. Ms. Kurban is working on Armillaria root rot.

Louis Jackai, entomologist with the International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria, met with Economic Entomology staff the week of April 22.

Isaac Kerstenetzky, Dean of Social Sciences at the Catholic University of Rio de Janeiro, Brazil, visited UIUC from April 25 to 29. Professor Kerstenetzky met with Robert G. F. Spitze and Andrew J. Sofranko, Agricultural Economics, and Earl D. Kellogg, OIA. Prof. Kerstenetzky's visit was arranged by Werner Baer, Latin American and Caribbean Studies.

Hursit Ertugrul, Rector of Ataturk University, Erzurum, Turkey, visited the Colleges of Agriculture and Veterinary Medicine during a visit to UIUC on April 28 and 29. He met with Acting Dean J. B. Claar, Harold E. Kauffman, INTSOY, Eldon L. Johnson, INTERPAKS, John W. Santas, OIA, and Veterinary Medicine faculty in a program arranged by the Office of International Programs and Studies (OIPS).

John Hives, Principal Quantity Surveyor, Farm Buildings Group, Ministry of Agriculture, Cambridge, England, discussed Illinois methods of disseminating farm buildings information to farmers and builders and "turn-key" building contacts with Donald G.

Jedele and James O. Curtis, Agricultural Engineering, April 29.

Florence Chanakira, Crop Science Department, University of Zimbabwe, Harare, met with Barry J. Jacobsen and Molly N. Cline, Plant Pathology, from May 2 to 6 to learn methods for screening soybeans for sclerotinia white mold resistance.

Laxman Singh, Systems Agronomist and Country Team Leader for the Caribbean Agricultural Research and Development Institute (CARDI), St. Kitts, West Indies, visited UIUC on May 11. He met with Joseph A. Jackobs, John D. Alexander, and Henry H. Hadley, Agronomy; Chester B. Baker and Earl R. Swanson, Agricultural Economics; H. E. Kauffman, INTSOY; and B. Jack Butler, Agricultural Engineering.

H. A. Kotze, Dean of the Faculty of Agriculture, University of the Orange

Free State, Bloemfontein, South Africa, visited UIUC on May 16 and 17. He met with Dean John R. Campbell, Robert P. Bentz, Cooperative Extension Service, Raymond G. Cragle, Agricultural Experiment Station, and Agricultural Economics extension staff. Allan G. Mueller, Agricultural Economics, hosted Professor Kotze.

SOVIET AGRICULTURE DISCUSSION

A discussion group on Soviet agriculture, part of the 1983 Illinois Summer Research Laboratory, will be held from June 27 to July 1, 3:00 to 5:00 p.m., in room 225 Library. The public is welcome to participate. To present a paper or obtain information on daily topics contact Dianne Merri-dith, Russian and East European Center, 1208 W. California Avenue, 333-1244.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign, 61801; Bonnie Irwin, editor. Faculty and Departments are encouraged to submit Newsletter items. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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International Agriculture Newsletter

JUL 13 1983

University of Illinois
at Urbana-Champaign

College of Agriculture and College of Veterinary Medicine, University of Illinois at Urbana-Champaign
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INTERNATIONAL ACTIVITIES

July 1983 No. 62

Benjamin A. Rasmusen, Animal Science and president of the International Society of Animal Blood Group Research, traveled to Gottingen, Germany, May 28, to plan for the society's 19th international conference. Dr. Rasmusen also participated in an animal genetics and breeding seminar at the University of Gottingen and presented a paper entitled "Linkage Between Genes for Halothane Sensitivity and Blood Groups in Pigs."

Stephen G. Bunker, Sociology, is conducting research on peasant farmers in Uganda from June through August, sponsored by a Hewlett Foundation grant. Dr. Bunker will be a fellow at UIUC's Center for Advanced Study next semester to prepare a monograph analyzing the ways in which peasant farmers have influenced agricultural and rural development in Uganda.

Burton E. Swanson, Agricultural Education, visited the International Service for National Agricultural Research (ISNAR), The Hague, Netherlands, and FAO/Rome, Italy, June 6 to 10, in connection with an upcoming INTERPAKS program on technology development and transfer.

Jane E. Polston, Plant Pathology, will be at the International Center for Research in the Semi-Arid Tropics (ICRISAT), Hyderabad, India, from June 12 to August 15 working on the epidemiology of yellow mosaic of soybeans with Y. L. Nene. From August

16 to 28 Ms. Polston will study the taxonomy of Bemisia tabaci, the tropical whitefly vector of yellow mosaic, at the British Museum of Natural History, London.

Harold E. Kauffman, INTSOY, visited the Asian Vegetable Research and Development Center (AVRDC) in Taiwan on June 13 and 14 to discuss collaborative activities, Indonesia on June 15 and 16 to plan an Asian soybean varietal improvement working group meeting, and Sri Lanka from June 17 to 21 to plan a soybean utilization training program.

Dr. Kauffman was in Palmira, Colombia, from June 22 to 24 to participate in the Latin American Soybean Varietal Improvement Working Group Meeting. Other UIUC staff attending the meeting included: Joseph A. Jacobs, Agronomy, Luis H. Camacho, Agronomy/Puerto Rico, and Marcos Kogan and Luis R. Zavaleta, Agricultural Entomology. Plant breeders attended from Argentina, Bolivia, Brazil, Colombia, Ecuador, Guatemala, Mexico, Peru, the United States, Uruguay, Venezuela, AVRDC, and INTSOY. The Instituto Colombiano Agropecuario (ICA) and the Centro Internacional de Agricultura Tropical (CIAT) were hosts for the meeting, FAO provided the funds, and INTSOY coordinated plans.

James B. Sinclair, Plant Pathology, left June 15 for a month in the People's Republic of China as an FAO

consultant on strengthening soybean research on diseases and their control at Heilongjiang Academy and other institutions.

Roy K. Simons, Horticulture, was invited to view research on pomology and soil management at the East Malling Research Station, Maidstone, Kent, England, May 10 to 20.

Ellery L. Knake, Agronomy, will be in the People's Republic of China from June 26 to July 18 as part of a People-to-People Agronomy Delegation.

Dusit Jesdapipat, Agricultural Economics, will be in Tokyo, Japan, to collect information on corn-livestock industries, June 26 to July 9. This information will be used as part of his Ph.D. dissertation.

Luis H. Camacho, INTSOY Agronomy stationed at Puerto Rico, participated in an FAO-sponsored meeting on a sub-regional cooperative network on edible grain legumes, Santo Domingo, Dominican Republic, June 27 to 29.

Lowell D. Hill, and Frederick C. Fliegel, Agricultural Economics, Joseph S. Vandemark, Horticulture emeritus, and Corrine Glesne, Educational Policy Studies, were in St. Vincent during June and early July to design an agricultural development project for USAID/Caribbean.

Poo Chow, Forestry, will present a paper entitled "The Variability of Lateral Fastener Resistance in New Wood-Base Structural Sheathing Products" at the International Union of Forestry Research Organization's All Division 5 Conference, Madison, Wisconsin, June 27 to July 5.

Loyd M. Wax, Agronomy/USDA, and James B. Sinclair, Plant Pathology, were selected for the 1983 Soybean Researcher's Recognition Program sponsored by the American Soybean Association and ICI Americas. The award

includes a ten-day tour during July of public and private soybean research facilities in the U.S. and Great Britain. Dr. Sinclair is unable to participate in the tour.

Michael E. Irwin, Agricultural Entomology, will be in Honduras the week of July 10 as part of a team reviewing the crop protection teaching program at the Escuela Agricola Panamericana, El Zamorano.

Theodore Hymowitz, Agronomy, will collect wild Glycine in Queensland, Australia, from July 19 to August 9. This trip, part of a joint research project between CSIRO and UIUC, is sponsored by the International Board for Plant Genetic Resources (IBPGR).

Attending the Second China/USA Soybean Symposium, July 28 to August 2, Jilin Academy of Agricultural Sciences, Gongzhuling, Jilin, are: Marcos Kogan, Agricultural Entomology; Randall L. Nelson and Gary E. Pepper, Agronomy, and Harold E. Kauffman, INTSOY.

William L. Ogren, Archie Portis, and Patty Gruenwald, Agronomy, will be attending the Sixth International Congress on Photosynthesis, Brussels, Belgium, August 1 to 6. Dr. Ogren will present an invited lecture entitled "Genetic Analysis of Photosynthetic Carbon Pathways." Dr. Portis will present a poster, coauthored by T. Stuart Boag, on inhibition of the higher activation of fructose-1,6-bisphosphatase and Sedoheptulose-1,7-bisphosphatase by osmotic stress in isolated spinach chloroplasts. Dr. Portis will also participate in the Workshop on Light-Dark-Modulation of Plant Enzymes, University of Bayreuth, West Germany, August 8 to 11.

Thomas A. McCowen, OIA, was recently elected to a two-year term as secretary-treasurer of AUSUDIAP (Association of U.S. University Directors of International Agriculture Programs).

VISITING RESEARCHERS

Ke Shan-qiang, Wuhan Institute of Botany, People's Republic of China, is a visiting scholar in Horticulture. He arrived in March for a two-year program on small fruits production and research techniques, especially strawberries and blackberries. Mr. Ke can be contacted at 105 Horticulture Field Laboratory, 333-1530.

Two veterinarians from Cairo University, Egypt, arrived in March for a one-year program in Veterinary Clinical Medicine sponsored under the Amideast Peace Fellowship Program. Abdel Ghallab is working with Randall S. Ott on reproduction in food animals, and Mohamed Shoukry is working with Ann Johnson and Alfred G. Schiller on bone grafting in dogs and navicular disease in horses.

Dragon Misevic, Maize Research Institute, Zemun-Polje, Yugoslavia, is a visiting scholar with the corn breeding group in Agronomy. He arrived in late May and will be on campus for one year.

Two new visiting scholars in Agronomy are Isao Kishimani, Laboratory of Plant Nutrition, Tohoku University, Japan, and Kuman Paka, Department of Botany, University College, Vidyaranya, Warangal, India. Mr. Kishimani, who will be at UIUC through March, 1984, is working on auxotroph selection and characterization experiments with haploid cells and protoplast. Mr. Paka is conducting research on somatic plant cell hybridization and will be here until January, 1984.

Ma Shu-jung, Soybean Institute, Heilongjiang Academy of Agricultural Sciences, Harbin, People's Republic of China, arrives July 1 as an FAO Fellow in Plant Pathology. Ms. Ma will work on plant virology techniques with Cleora J. D'Arcy and Jacqueline Fletcher, identification and

control of soybean cyst nematode with Dale I. Edwards and Gregory R. Noel, and root diseases with James B. Sinclair, Sung M. Lim, and Lynn E. Gray.

VISITORS COMING TO CAMPUS

R. P. C. Morgan, Research Development at the National College of Agricultural Engineering, Silsoe, England, will visit Agricultural Engineering on July 21. J. Kent Mitchell, 137 Agricultural Engineering Building, 333-4913, is arranging his schedule.

Robert E. Armstrong, Project Officer with USAID/Kenya, will visit INTSOY on July 25.

Lawrence Wilson, Dean of the Faculty of Agriculture, University of the West Indies, is expected to visit UIUC for two weeks in late July and early August. His schedule is being arranged by Burton E. Swanson, MUCIA liaison officer, 3019 Foreign Languages Building, 333-1993.

FULBRIGHT APPLICATION DEADLINES

September 15 - Africa, Asia, Europe, Middle East; October 15 - scholars-in-residence program; November 1, - junior lectureships to France, Germany, Italy, Portugal, and Spain; February 1, 1984, travel awards in France. **Agriculture awards are available in Algeria, Egypt, Cameroon, Hungary, India, Korea, Nepal, Romania, Sierra Leone, Sudan, Syria, Thailand, Turkey, U.S.S.R., Yugoslavia, Zambia, and Zimbabwe.

Details are available from Carolyn Pribble, 113 Mumford Hall, 333-6337.

VISITORS RECENTLY ON CAMPUS

Eiji Yuda, Department of Horticulture, Osaka University, Japan, met with James S. Titus and Walter E. Splittstoesser, Horticulture, April 27 and 28.

Gershon Segelman, research director of Israel Fertilizer Research Center, Tel Aviv, visited the College of Agriculture from May 9 to 11 to discuss current developments in fertilizers and soil fertility. He met with Thomas D. Hinesley, L. Fred Welch, and Frank J. Stevenson, Agronomy, and John M. Swiader, John M. Gerber, and L. Arthur Spomer, Horticulture. Dr. Segelman's visit was arranged by L. Touby Kurtz, Agronomy.

Venantia Malima, Research Section of the Tanzanian Ministry of Agriculture, discussed INTSOY and INTERPAKS programs with Eldon L. Johnson, Harold E. Kauffman, and John W. Santas, OIA, and Joseph A. Jackobs, Agronomy, on May 19.

A 16-member delegation from the Agricultural Committee of the Swedish Savings Banks Association visited UIUC on May 25 as part of their U.S. tour. The team met with Wesley D.

Seitz, Peter J. Barry, Steven T. Sonka, and David A. Lins, Agricultural Economics, and Robert Behrens, Commercial Bank of Champaign.

Subash Mozaria and Tony Irvin, International Laboratory for Research on Animal Diseases (ILRAD), Nairobi, Kenya, discussed research programs in hemotropic diseases with Miodrag Ristic, Ronald D. Smith, and Michael G. Levy, Veterinary Pathobiology, May 20 to 23.

Ibrahim Mujic, Director, Agrokomerc, Velika Kladusa, Yugoslavia, met with Lloyd D. Witter, Lun-Shin Wei, and Peter J. Bechtel, Food Science, and visited the American Oil Chemists' Society, Champaign, May 25.

Peter Greshoff, Department of Botany, Australian National University, Canberra, met with Agronomy faculty and presented a seminar on genetics of symbiotic nitrogen fixation, June 17.

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UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN

August 1983 No. 63

INTERNATIONAL ACTIVITIES

Sidney L. Spahr, Dairy Science, and Ram Sagi, Agricultural Engineering, Israel Institute of Technology, Haifa, recently received a \$250,000 grant from the United States-Israel Binational Agricultural Research and Development (BARD) Fund to support a continuing research project on automation and electronics for dairy herd management. Most of the work will be performed at UIUC. Dr. Sagi met with Dr. Spahr on June 30 to finalize the project.

David H. Baker, Animal Science, was the featured speaker at the Nutrition and Intestinal Parasitism Conference, Acapulco, Mexico, May 26 and 27. He presented three papers on nutrition and parasitology.

Harold Brinkmeier, Agriculture Extension Adviser, Carroll County, recently hosted on his farm Samba Kaputo, Deputy Minister for Higher and University Education, Kinshasa, Zaire. Sponsored by the U.S. Information Agency (USIA), Mr. Kaputo was interested in modern farming techniques, crops, and fertilizer use.

Marvin C. Carbonneau, Horticulture, was the only educator on a team of 25 commercial flower producers who toured carnation, rose, and chrysanthemum cut-flower producing areas near Bogota and Medellin, Colombia, June 8 to 13. Organized by the American Farm

Bureau Federation, Dr. Carbonneau's trip was sponsored in part by the Illinois State Florists Association.

J. B. Claar, INTERPAKS, traveled to Njala University College (NUC), Sierra Leone, June 10 to 24, to advise USAID on phasing out the USAID-sponsored ACRE project. Dr. Claar developed alternatives for consideration by USAID and the government of Sierra Leone, and presented a paper at a conference at NUC.

Wayne L. Pedersen and J. K. Pataky, Plant Pathology, participated in the International Workshop on the Current Status of Botanical Epidemiology, North Carolina State University, June 18 to 24. Dr. Pedersen presented a paper entitled "Components of Disease Resistance in Corn."

Rabel J. Burdge, Agricultural Economics and Institute for Environmental Studies, attended the International Seminar on Environmental Impact Assessment, University of Aberdeen, Scotland, July 17 to 29.

John W. Santas, OIA, participated in a seminar entitled "Socio-Cultural Aspects of Development and Information as a Resource," July 18 to 22, University of Minnesota, St. Paul. This was the fourth seminar in a series of six for recipients of the Partners of the Americas/Kellogg Foundation Fellowship in International Development.

Emerson D. Nafziger, Agronomy, participated in a farming systems workshop, July 18 to 22, sponsored by US-AID and held at the University of Florida's Center for Tropical Agriculture.

Sandra Brown, Forestry, visited forestry departments of universities and government organizations in Indonesia, Thailand, and the Philippines to observe activities related to watershed protection, plantation forestry, forest management of natural stands, and reforestation projects during July.

Robert P. Bentz and Violet M. Malone, Cooperative Extension Service, Jerry W. Robinson and Sam H. Johnson, Agricultural Economics, Burton E. Swanson, Agricultural Education, Earl D. Kellogg, OIA, Eldon L. Johnson, OIPS, and J. B. Claar, INTERPAKS, discussed INTERPAKS programs with 10 faculty from Colorado State University during a meeting held at Steamboat Springs, Colorado, July 25 to 27.

Representing UIUC at the Fourth International Congress of Plant Pathology, August 17 to 24, Melbourne, Australia, will be Cleora J. D'Arcy, Jack D. Paxton, James B. Sinclair, R. Dan Neely, Stephen M. Haber, and Richard E. Ford, Plant Pathology, and Michael E. Irwin, Agricultural Entomology.

Dr. Ford and Dr. Irwin will participate in the International Working Group on Legume Viruses meeting, Binna Burra, Australia, August 10 to 12, and Dr. Irwin in the Plant Virus Epidemiology meetings, Corowa, August 25 to 27. From September through November Dr. Irwin will collect insects from wild relatives of soybeans in Australia.

Deoki N. Tripathy, Veterinary Pathobiology, will attend the World Veterinary Congress, Perth, Australia, August 21 to 26, and present an invited paper on control of duck diseases at a Congress satellite meeting on dis-

ease prevention and control in poultry, Sydney, August 30 to September 3. Dr. Tripathy will also visit the Department of Microbiology at Monash University, Clayton, Victoria, Australia.

VISITORS COMING TO CAMPUS

Shamsher Ali Khan, Commissioner, Malakand Division, Amanullah Khan, Political Agent, Malakand Agency, Ehaz Rahim, Secretary, Northwest Frontier Province Planning and Development Department, Toaha Quareshi, Director of Planning, Pakistan Narcotics Control Board, Syed Abbass Hussian Shah, Joint Secretary, Ministry of the Interior, Pakistan, and Stan Samuelson, U.S. State Department, will visit UIUC from July 31 to August 2. They are investigating the replacement of drug crops with agricultural crops. The team will meet with Thomas A. McCowen and William N. Thompson, OIA, Joseph A. Jackobs, Dan R. Erickson, and Russell T. Odell, Agronomy, Lun-Shin Wei, Alvin I. Nelson, and Wilmot Wijeratne, Food Science, INTERPAKS staff, and extension administrators. They will also visit the Champaign County Cooperative Extension Service Office and a corn/soybean farm.

Jorge Chang, head of the Agronomy Department, Escuela Agricola Panamericana, El Zamorano, Honduras, will visit INTSOY on August 10 and 11.

Masayuki Ohmori, Laboratory of Marine Biology, Oceanic Research Institute, University of Tokyo, Japan, will discuss nitrogen metabolism with Walter E. Splittstoesser, Horticulture, and Richard H. Hageman, Agronomy, August 15 to 17. Dr. Splittstoesser, 101 Vegetable Crops Building, 333-1905, is arranging his schedule.

Four scientists from Jilin Academy of Agricultural Science and Hubei Academy of Agriculture, People's Republic of China, are scheduled to visit UIUC from August 24 to 27. Escorted by H.

FULBRIGHT SENIOR SCHOLAR AWARDS

September 15 in the application deadline for 1984/1985 Fulbright Senior Scholar Awards for Africa, Asia, Europe, and the Middle East. Awards of interest to agriculture and veterinary medicine faculty include:

Algeria: any specialization

Bahrain: invertebrate biology, genetics, economics

Bangladesh: development economics

Cameroon: rural development

Egypt: animal, plant, or soil sciences; any specialization

Hungary: economics, biology research

India: agricultural botany, agricultural technology, agricultural microbiology, agronomy, horticulture, soil science, forestry, molecular and environmental biology, toxicology of pesticides, food technology, veterinary science, animal husbandry; any specialization

Indonesia: evolution biology, freshwater or marine biology, botany

Ivory Coast: microbiology or other biology specialties

Japan: international economics

Kenya: botany, economics

Korea: any specialization

Malaysia: marine science

Mauritius: economics of developing countries

Middle East/South Asia Regional: any specialization

Morocco: science education; research methods in agriculture, biology, economics

Nepal: plant or forest ecology

Netherlands: international economic stagnation

Pakistan: marine biology, economics

Poland: international economics

Portugal: membrane transport

Romania: agronomy, biology, economics

Sierra Leone: agronomy, agricultural engineering

Sudan: animal or plant sciences, engineering, technology, marine biology, vertebrates, physiology

Syria: any specialization

Thailand: agricultural economics, multicropping projects

Tunisia: international economics

Turkey: bioproductivity, photosynthesis, biomass, environmental microbiology

USSR: any specialization in biology, agriculture, or economics

Yemen: microbiology

Yugoslavia: plant genetics, economics

Zambia: agricultural economics, veterinary medicine

Zimbabwe: animal science

Further information on the awards is available from the Graduate College Fellowship Office, 311 Administration Building, 333-0036.

recent visitors, continued

John L. Woods, UNDP Asia and Pacific Programme for Development Training and Communications Training, Bangkok, Thailand, discussed INTERPAKS training work and possible cooperative programs in Asia with J. B. Claar, July 11 and 12.

Hyung Tai Shin, head of the Department of Dairy Science, Sung Kyun Kwan University, Suweon, South Korea, discussed animal nutrition questions with Animal Science and Dairy Science faculty on July 20. Dr. Shin received his Ph.D. from Animal Science in 1976.

L. K. Oosthuizen, senior lecturer in agricultural economics, University of the Orange Free State, Bloemfontein, South Africa, and currently a post-doctoral fellow at the University of Minnesota, visited Agricultural Economics from July 25 to 27. Dr. Oosthuizen's research is in economics of water management and irrigation.

Twenty-two international participants in the Seed Improvement Short Course were at UIUC from July 25 to August 3 for a workshop on "Agronomic and Communications Skills for Seed Technologists." The Agronomy program was coordinated by A. W. Burger and the Agricultural Communications portion by John H. Behrens.

Robert E. Armstrong, USAID/REDSO, Nairobi, Kenya, discussed a possible oilseeds program in Uganda with John W. Santas, Thomas A. McCowen, and William N. Thompson, Office of International Agriculture, Joseph A. Jacobs and Dan R. Erickson, Agronomy, and L. S. Wei, Food Science, July 25.

MUCIA/USSR EXCHANGE PROGRAM

The Midwest Universities Consortium for International Activities (MUCIA)

has an exchange program with the M.V. Lomonosov Moscow State University (MGU). Associate and full professors in the natural sciences, social sciences, and the humanities may lecture and conduct research at MGU for periods ranging from six weeks to three months. Further information on the exchange is available from Burton E. Swanson, OIPS, 3010 Foreign Languages Building, 333-1993.

ZAMARE ORIENTATION

Twenty-five B.S., M.S., and Ph.D. students from Zambia, participant trainees in the Zambia Agricultural Research and Extension (ZAMARE) project, will be in Illinois August 8 through 16 for a workshop. At UIUC they will participate in seminars given by John W. Santas, Thomas A. McCowen, Carolyn M. Pribble, J. B. Claar, and William N. Thompson, OIA; Dean John R. Campbell; INTERPAKS staff; Violet M. Malone, Cooperative Extension Service; Raymond G. Cragle, Agricultural Experiment Station; and Jerry W. Robinson, Marcia N. White, and Thomas Gillard-Byers, Agricultural Economics. They will also visit the Illinois Department of Agriculture and the State Fair in Springfield, the Mason County Extension Office, the Experiment Field (Sand Farm) at Kilbourne, and farms in Mason County.

Puteho Ngonda, Zambian Ambassador to the U.S., Winter Chibasa and Russell Mulele, Zambia Ministry of Agriculture and Water Development, Ernest Gibson, USAID/Lusaka, James Ragin, ZAMARE team leader, Chancellor William Hytche, University of Maryland, Eastern Shore, and Howard Olson and Oval Myers, Southern Illinois University at Carbondale, will meet with the trainees on August 8 to update them on the ZAMARE project.

C. Chiang, University of Minnesota, they will discuss UIUC research on resistance to northern corn blight with Wayne L. Pedersen, Plant Pathology. Dr. Pedersen, N-519 Turner Hall, 333-3847, is arranging their schedule.

Y. D. Sharma, Agricultural University, Palampur, India, and currently an FAO scholar at Cornell University, will spend the week of August 20 with Safi S. Korban, Horticulture, learning techniques on disease screening, seedling evaluation, and selection in fruit trees.

VISITING RESEARCHER

Tribhuvan Singh, Department of Botany, University of Rajasthan, India, will study seedborne diseases of soybeans with James B. Sinclair, Plant Pathology, for six months beginning in August.

VISITORS RECENTLY ON CAMPUS

Recent visitors to Horticulture include Joseph Sullivan, University of Puerto Rico, Mayaguez, May 12, and John Miles, Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia, May 26 and 27. Dr. Sullivan presented a seminar on "Searching for Wild Bean Germplasm in Mexico" and Dr. Miles a seminar on "Improvement of Forage Crops by Breeding, with Special Reference to the Tropical Legume Stylosanthes guianensis."

Pothinus C. Mokgokong, Rector, University of the North, Pietersburg, South Africa, visited UIUC from June 1 to 3. Dr. Mokgokong toured the College of Agriculture experimental farms with John W. Santas, OIA, and met with Charles Stewart, Center for African Studies, UIUC administrators, and College of Education administrators.

Kerstin Thoren-Tolling, Sweden, visited the veterinary clinics on June 9 and 10 to discuss clinical immunology.

Alvaro M. R. Almeida, EMBRAPA/CNP-Soja, Brazil, Mani Skaria, India, both Ph.D. students at Purdue, and Mohamed Eweida, plant pathologist at the Swedish University of Forestry and Agricultural Sciences, Uppsala, discussed research on potato viruses and barley yellow dwarf virus with Jacqueline Fletcher, Steven M. Haber, and Henryk Jedlinski, Plant Pathology, and William G. Ruesink and Michael E. Irwin, Agricultural Entomology, June 16 and 17.

Andrew Hughes Hallett, Erasmus University, Rotterdam, Netherlands, visited Agricultural Economics from June 20 to 22 and presented a seminar entitled "Can We Rely on International Commodity Agreements to Redistribute Resources Between North and South?"

G.M. Reddy, geneticist at Osmania University, Hyderabad, India, discussed new approaches in genetics and breeding, and apple tissue culture work with Safi S. Korban and M. Kouider, Horticulture.

Wang Yu-min, Soybean Institute, Heilongjiang Academy of Agricultural Sciences, Harbin, People's Republic of China, and currently an FAO fellow at Iowa State University with Detroy Green, discussed breeding for physiological traits with faculty in Agronomy, Plant Pathology, and Agricultural Entomology, June 14 to 18. Mr. Wang also attended the Agronomy Field Day.

John D. Sutton, senior research scientist from the National Institute for Research in Dairying, Reading, England, met with Dairy Science faculty on June 20 and 21. He presented a seminar on concentrate utilization for milk production.

Visitors to Animal Science to discuss recent developments in pet foods and animal feeding include David Newton, Framlingham, England, June 23; E. Troch and Bernard Drossch, N. V. Cervo, Merksem, Belgium, June 7 and 8; and Abilio Tardin, Mogiana Foods and Feed, Campinas, Brazil, June 30.

Ramesh Sinha, Agriculture Canada, Ottawa, visited UIUC on July 1. He discussed plant mycoplasma and spiroplasma techniques with Jacqueline Fletcher, Plant Pathology, and Catherine E. Eastman, Economic Entomology, and met with Lindsay M. Black, Plant Pathology emeritus. Dr. Sinha received his Ph.D. from UIUC.

G. Stranzinger, Federal Institute of Technology, Zurich, Switzerland, visited Veterinary Clinical Medicine and Dairy Science on July 1, and presented a seminar on attempted production

of bovine chimeras by micromanipulation.

Brojendra N. Banerjee, Director, Management and Marketing Consultancy Services, New Delhi, India, Simon W. Kahunya, Director, Nakuru Layman Association Training Center, Nakuru, Kenya, and Jose Domingo Ramos, Director, Asociacion Accion Unida, Monteria, Colombia, visited with Donald L. Day, Agricultural Engineering, and Garrett R. Oetzel, Veterinary Clinical Medicine, about utilizing by-products from animal production in developing countries for producing fuel, feed, and fertilizer. They were escorted by Paul Henselman, International Farming Systems, Inc., Wheaton, IL, July 2.

Koos Van Leeuwens, Ministry of Agriculture, Arnhem, Holland, met with Roger D. Shanks, Charles N. Graves, Sidney L. Spahr, and Ralph V. Johnson, Dairy Science, July 1.

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College of Agriculture and College of Veterinary Medicine, University of Illinois at Urbana-Champaign
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September 1983 No. 64

INTERNATIONAL ACTIVITIES

Vikram Singh Bisht recently completed his Ph.D. in Plant Pathology and has accepted a postdoctoral position at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India.

Richard L. Bernard, Agronomy, spent four weeks during July and August as an FAO consultant to the Heilongjiang Academy of Agricultural Sciences, Harbin, People's Republic of China.

Jeffrey O. Dawson and Paul Carlson, Forestry, spent July 14 to 29 at the Reserva Merenberg, La Plata, Colombia, sampling alder nodules and measuring Alnus jorullensis tree growth. The data will be used in Mr. Carlson's M.S. thesis.

Jane Gleason, Agricultural Economics, and Susan Rogers, recent graduate from Agricultural Economics, traveled in the Ivory Coast, Mali, and Upper Volta from July 23 to August 20 for an on-site study of agricultural conditions.

Safi S. Korban, Horticulture, attended the International Workshop on Fruit Tree Vigor, Beltsville, MD, July 25 to 29. The workshop was sponsored by the American Society of Horticultural Science and the International Society for Horticultural Science.

Mark A. James, Veterinary Pathobiology, presented an invited paper enti-

tled "Characterization of Culture Derived Soluble Babesia bovis Antigens" at the Second International Immunoparasitology Symposium, Lincoln, Nebraska, August 3 to 5.

Dr. James recently returned from a two-year stay in Venezuela where he worked on a UIUC/Universidad Centro-Occidental Lisandro Alvarado project on hemoparasitic diseases.

Jack M. Widholm and Randal Hauptmann, Agronomy, participated in the Sixth International Protoplast Symposium, Basel, Switzerland, August 12 to 16. They presented a paper, jointly authored with T. Kumar, Agronomy, entitled "Carrot x Tobacco Somatic Cell Hybrids Selected by Amino Acid Analog Resistance Complementation."

Jack D. Paxton, Plant Pathology, presented seminars at Christchurch and Auckland, New Zealand, and Brisbane, Sydney, Canberra, and Melbourne, Australia, before participating in the Fourth International Congress of Plant Pathology, Melbourne, August 17 to 24.

Michael F. Hutjens, Dairy Science, will present a two-day dairy nutrition school for the Northern Ontario Veterinary Association, North Bay, Ontario, Canada, September 23 and 24.

Bruce Brodie, Veterinary Clinical Medicine, will take sabbatical leave at the University of Alexandria's Campus for Veterinary Medicine, Edfina, Egypt, from September through February. Dr.

Brodie will be involved in a research project on the causes of infertility in water buffalo and will help establish a herd health program.

Burton E. Swanson, Agricultural Education, is reviewing the training programs at the Centro Internacional de Mejoramiento de Maiz y Trigo (CIMMYT), Mexico, and will make recommendations for the future, August 28 to September 9.

INTERPAKS will prepare the second edition of "Agricultural Extension: A Reference Manual" for FAO/UN. Burton E. Swanson, Agricultural Education, will be the editor. Chapters will be prepared by John H. Behrens and James F. Evans, Agricultural Communications; Robert P. Bentz, Cooperative Extension Service; J. B. Claar, INTERPAKS Director; Frederick C. Fliegel, Andrew J. Sofranko, and Sam H. Johnson, Agricultural Economics; Earl D. Kellogg, OIA; F. Wilfrid Lancaster, Library and Information Science; and Violet M. Malone, Extension Education.

Erwin Small, Veterinary Clinical Medicine, will present a series of seminars with the International Veterinary Symposia in Norway, Finland, and Sweden from September 19 to October 4. Dr. Small is program chairman for the Society.

The Second International Conference on Malaria and Babesiosis, organized by UIUC's College of Veterinary Medicine, the Marcel Merieux Foundation, and the University of Grenoble, France, will be held in Annecy, France, September 19 to 22. Attending from UIUC are: Dean Richard E. Dierks, John A. Shad-duck, Ronald D. Smith, Mark A. James, Sonia Montenegro-James, Miodrag Ristic, Federico Montealegre, Mary Lynn Chilbert, Marilyn V. Lynch, and Cynthia J. Holland, Veterinary Medicine; Theodore L. Brown, Graduate College; and Robert A. Compratt, Office of Patents and Copyrights.

VISITING RESEARCHERS AND TRAINEES

Two new visiting scholars in the Microbiology Division of Dairy Science are Karen Robins, Department of Public Health, University of New South Wales, Sydney, Australia, August 1 to October 31, and Zhao Hongxue, Chengdu Biogas Institute, Sichuan, People's Republic of China, for one year beginning in August. Both will work with Marvin P. Bryant on bacteria involved in anaerobic degradation and methanogenesis.

Aunna Lippert, Ontario Veterinary College, Guelph, and Benjamin Shechter, University of Montreal, Canada, are at UIUC for one-year clinical training programs in Veterinary Medicine. Dr. Lippert is an intern in small animal medicine and Dr. Shechter is in food animal medicine and surgery.

Visiting Agronomy for one month are: Ayre Kenig, Israel Institute of Technology, Haifa, to work on nitrogen and crop simulation beginning September 1, and Nicola Tomov, Director of the Maize Research Institute, Kneja, Bulgaria, to work with the corn group beginning in mid-September. Dr. Tomov is sponsored by the International Research and Exchanges Board (IREX).

Miao Shu-hua, Academia Sinica, People's Republic of China, arrived in July for one year's study in Agronomy on amino acid-resistant maize mutants.

Three faculty members of the Northwest Frontier Agricultural University, Peshawar, Pakistan, arrived on August 23 for advanced studies under the Pakistan Agricultural Education, Research, and Extension Project: Mohammad Saeed, Ph.D study in Food Science at UIUC; Hafiz Inayatullah, one-year non-degree study in Horticulture at UIUC; and Mohammad Karim, one-year non-degree study in Agronomy at SIU-C.

Zaird Caffoor and N. Vignarajah, agronomists with the Sri Lanka Soybean

Project, arrived in August for a two-month study tour of the U.S. They will work with INTSOY staff until mid-September, and then travel to Iowa State University, Delta Branch Experiment Station in Stoneville, MS, Mississippi State University, and the University of Florida. On their way home they will participate in a soybean cropping systems conference in Tsukuba, Japan, Sept. 26 to Oct. 1.

WOMEN IN DEVELOPMENT SEMINAR

September 8 These are Modern Times: Infant Feeding Practices in Contemporary Malaysia - Lenore Manderson, School of Sociology, University of New South Wales, Sydney, Australia. 4:00 p.m., W-115 Turner Hall.

Dr. Manderson will visit UIUC from September 7 through 9. Her schedule is being arranged by the Office of Women in International Development, 3022 Foreign Languages Building, 333-1977.

VISITORS RECENTLY ON CAMPUS

Robert Dantzer, Laboratory of Behavioral Neurobiology, University of Bordeaux, France, was on campus from June 21 to 24 to discuss animal behavior research with Stanley E. Curtis, Harold W. Gonyou, and Paul C. Harrison, Animal Science. Mr. Dantzer also met with Joseph Simon, Veterinary Pathobiology, and Robert W. Hendersen, Psychology.

Recent visitors with Lun-Shin Wei in Food Science include: Yutaka Ota, Processed Foods Department, Mitsubishi Corp., Tokyo, Japan, who discussed the potential for soymilk marketing in Japan, the U.S., and other parts of the world, July 25; and Hiroyoshi Okamoto, Grain Division, Mitsui Co., Ltd., Tokyo, Japan, Etsuo Nomura, Planning and Marketing Department, Hohnen Oil Co., Tokyo, Japan, Hiroshi Hara, Manager, Mitsui Co., Okayama Branch, Japan, and

Mr. Kato, President, Kato Oil Co., Okayama, Japan, to discuss the potential and future of soy foods, particularly soy protein concentrates and isolates, August 2.

A team of eleven extension agronomists from Israel visited UIUC on August 2 and 3 to discuss corn production research. They met with Emerson Nafziger, Michael J. Ottman, D. E. Alexander, and Ellery L. Knake, Agronomy, Donald E. Kuhlman, Agricultural Entomology, and M. Dale Bateman, Douglas County Agricultural Extension Advisor.

Greg Ticehurst, Manager of Livingston Farm, University of Sydney, Australia, visited Illinois as part of a U.S. study tour on soil conservation and no-till techniques. He met with John C. Siemens, Agricultural Engineering, August 8.

Cas Maree, Livestock Science Department, University of Pretoria, South Africa, met with Animal Science faculty from August 8 to 10.

Marshall Baillieu, Bioenterprises Pty. Ltd., Melbourne, Australia, discussed the potential for using parasitic nematodes in insect control with Allan S. Felsot, Eli Levine, Kevin L. Steffey, William H. Luckmann, and Stephen P. Briggs, Economic Entomology.

Nora Quebral, Head of the Department of Development Communications, University of the Philippines at Los Banos, visited UIUC from August 17 to 19. She met with faculty in Agricultural Communications and the College of Communications, William N. Thompson, Office of International Agriculture, Robert E. Brown, Office of International Programs and Studies, and Joan D. Solaun, Study Abroad Office.

E. J. M. Rabu, General Manager, Agricultural Finance Corporation, Nairobi, Kenya, met with Chester B. Baker and Jean M. Due, Agricultural Economics, August 18.

KELLOGG FELLOWSHIP PROGRAM

September 30, 1983, is the campus deadline for the W. K. Kellogg Foundation's 1984 National Fellowship Program. The program is designed for junior faculty who are interested in developing cross-cultural and interdisciplinary perspectives on contemporary human and social problems. The foundation is particularly interested in broad issues involving agriculture, education, and health.

Applications must include endorsements from the appropriate director, dean, or supervisor, and from Chancellor Cribbet. Detailed information and application materials are available from Cindy Kienzler, Swanlund Administration Building, 601 E. John Street, Champaign, IL 61820, 333-6394.

NEW PUBLICATIONS AVAILABLE

Three items in the INTSOY Publications Series are now available:

International Inoculant Shipping Evaluation by R. S. Smith, W. H. Judy, and W. C. Stearn. (INTSOY Series No. 23). 25 pages.

International Soybean Variety Experiments, Seventh Report of Results, 1979, by J. A. Jackobs, M. D. Staggs, and D. R. Erickson. (INTSOY Series No. 24). 211 pages.

Soybean Research in China and the U.S. Proceedings of the China/U.S.A. Soybean Symposium, B. J. Irwin, J. B. Sinclair, and Wang Jin-ling, eds. (INTSOY Series No. 25). 194 pages.

Copies are available from Patricia S. Cunningham, 113 Mumford Hall, 333-4370.

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October 1983 No. 65

INTERNATIONAL ACTIVITIES

Ronald D. Smith, Veterinary Pathobiology, recently returned from a two-month trip to Ecuador, Brazil, and Uruguay. Dr. Smith was in Ecuador to critique a proposal on hemoparasitic diseases of cattle, and in Brazil and Uruguay to assess research on tick-borne diseases. His trip was sponsored by the Interamerican Institute for Cooperation on Agriculture (IICA).

Sorab P. Mistry, Animal Science, gave a series of invited lectures and seminars on metabolic regulation at the Swiss Federal Institute of Technology, Zurich, in June.

John A. Grunau, Food Science, presented a seminar entitled "The Metabolism of 7, 12-Dimethylbenz (a) Anthracene: Its Modification by Selenium and Other Minerals" at the Imperial Center Research Fund, Lincoln's Inn Fields, London, England, July 4.

Paul R. Fitzgerald, Veterinary Pathobiology, presented an invited paper on "The *Coccidia* of Fishes" at the First International Symposium of Ichthyoparasitology, Ceske Budejovice, Czechoslovakia, August 8 to 13. Dr. Fitzgerald also served as chair of the section on protozoan diseases of fishes.

Gregory R. Noel, Plant Pathology, presented a paper entitled "Soil pH and Fertility Effects on *Heterodera*

glycines Damage to Soybean" at the 15th annual meeting of the Organizaci-
on de Nematologos de los Tropicos Americanos, Mexico City, Mexico, August 8 to 12.

Barry A. Eisenberg, Horticulture, traveled to Frankfurt, West Germany, and the Canary Islands to discuss geranium shipping research with the Fischer Geranium Company officials, August 9 to 19.

Harold W. Gonyou, Animal Science, presented a paper at the International Ethology Conference in Brisbane, Australia, and visited research stations in Eastern Australia and New Zealand, August 10 to September 10.

Mohamed A. Mehaia and Munir Cheryan, Food Science, presented a paper on methods for improving productivity of fermentations at the Third International Conference on Anaerobic Digestion, Boston, Massachusetts, August 15 to 19.

Barbara A. Yates, Educational Policy Studies, traveled to Fayetteville, Arkansas, August 21 to 24, to assist in writing a proposal for the design phase of the USAID/Rwanda Cropping Systems Improvement Project.

Jack B. Claar, Office of International Agriculture, was in Washington, D.C., August 23, to participate in a USAID seminar on agricultural education in Africa.

Jack R. Harlan, Agronomy, participated in a symposium in the USSR on the pre-history of Central Asia, September 3 to 18. The trip was part of an exchange program between the Soviet Academy of Science and the American Council of Learned Societies.

The University of Illinois was invited to conduct a study of agricultural research in the Northwest Frontier Province, Pakistan, and make recommendations on unifying research under the NWFP Agricultural University. Participating in the study are: Russell T. Odell, Agronomy, September 6 to October 15; Borje K. Gustafsson, Veterinary Clinical Medicine, September 13 to October 6; William N. Thompson, Office of International Agriculture, September 29 to November 3; and Thomas A. McCowen, Office of International Agriculture, October 1 to November 6. The study is supported by the U.S. Agency for International Development.

Sam H. Johnson, Agricultural Economics, delivered a paper entitled "Agricultural Intensification in Thailand: Complementary Role of Infrastructure and Agricultural Policy" at the International Irrigation Water Management Workshop, Khon Kaen, Thailand, September 13 to 16.

Thomas A. McCowen, Office of International Agriculture, attended the AUSU-DIAP (Association of U.S. University Directors of International Agricultural Programs) Executive Committee meeting and the CIAP board meeting, Washington, D.C., September 21.

Robert W. Howell and Joseph A. Jackobs, Agronomy, Harold E. Kauffman, INTSOY, and James B. Sinclair, Plant Pathology, presented papers at the International Symposium on Soybean in Tropical and Subtropical Cropping Systems, Tsukuba, Japan, September 27 to 30.

Following the symposium Dr. Jackobs will travel to Taiwan, Bangladesh, Nepal, Turkey, and Nigeria to discuss

cooperative work in soybean production and view soybean producing areas.

Alan J. Parker, Veterinary Clinical Medicine, was in Japan from September 6 to 20 to address universities and local veterinary associations in Tokyo, Osaka, and Fukuoka. From September 29 to October 10, Dr. Parker lectured at the Royal Veterinary and Agricultural University, Copenhagen, Denmark. His topic in both countries was neurological diagnosis.

Jean M. Due, Agricultural Economics, conferred with researchers in the Bean/Cowpea CRSP in Tanzania, continued her research on land resettlement programs in Zimbabwe, and met with members of the University of Illinois ZAMARE project team in Zambia during September and early October.

Dr. Due will present a paper entitled "How do Rural Women Perceive Development? A Case Study in Zambia" at the Association of Women in International Development Conference, Washington, D.C., October 13 to 15.

Fred A. Kummerow, Food Science, spent three weeks in the Soviet Union and two weeks in Romania during September and early October through an NSF exchange program. Dr. Kummerow currently has an NSF-sponsored research program with Romanian scientists on the role of lipids in biomembranes.

Dr. Kummerow will also present a paper on the role of cell membrane involvement in the development of atherosclerosis at the International Fat Congress, Bucharest, Hungary, October 3 to 8, and present a seminar at the European Organization for the Control of Circulatory Diseases, Munich, Germany.

Michael F. Hutjens, Dairy Science, will present seminars on energy needs for dairy cattle in Kwangju, Pusan, and Seoul, Korea, October 23 to 28. The trip is sponsored by Borden World Trade, Inc., and the National Rendering Association.

MONICAL SCHOLARSHIPS

December 1, 1983, is the application deadline for Monical Scholarships for Study in Costa Rica. Undergraduate and graduate students with at least a 4.0 GPA are eligible to apply. Awardees will engage in a full program of study at the University of Costa Rica, San Jose, during the spring semester (January to July, 1984), and will write a 25-page paper on an aspect of human well-being in Costa Rica. Details are available from the Center for Latin American and Caribbean Studies, 1208 West California St., room 250, 333-3182.

SEMINARS

September 28 Discussions of a Sabbatical Leave in Northern China - Errol D. Rodda, Agricultural Engineering.
4:00 p.m., 426 Mumford Hall.

October 5 Forestry in Southeast Asia - Sandra Brown, Forestry.
4:00 p.m., 426 Mumford Hall.

October 6 Observations on Women's Extension Programs in Pakistan - Mary A. Keith, Foods and Nutrition.
Noon, Parr Lounge, YMCA, 1001 South Wright Street, Champaign.
*Women in International Development seminar series. (You are welcome to bring a sack lunch.)

October 12 The Role of U.S. Universities in Meeting World Food Needs - Frederick E. Hutchinson, Executive Director, Board for International Food and Agricultural Development (BIFAD).
4:00 p.m., 426 Mumford Hall.

October 19 Report on the Second China/USA Soybean Symposium held at Jilin Academy of Agricultural Sciences, Changchun, Jilin, People's Republic of China - Harold E. Kauffman, INTSOY; Marcos Kogan, Agricultural Entomology; and Randall L. Nelson and Gary E. Pepper, Agronomy.
4:00 p.m., 426 Mumford Hall.

October 26 Export Promotion vs. Local Consumption: Agricultural Strategies in Mbale, Uganda - Stephen G. Bunker, Sociology.
4:00 p.m., 426 Mumford Hall.

November 2 International Activities of the University of Illinois at Chicago - Annette M. Yonke, Chair, UIC Council on International Programs and Activities.
4:00 p.m., 426 Mumford Hall.

November 9 Household Economic Strategies: A Comparison of Commercial Vegetable and Subsistence Farmers in the Highland Philippines - Jean Trelogen Peterson, Human Development and Family Ecology.
4:00 p.m., 426 Mumford Hall.

November 16 Egypt/UIUC Project on Microbial Conversion of Biomass into Fuels, Feed, and Fertilizer - Mostafa El-Kattan, Agricultural Research Center, Giza, Egypt; Donald L. Day, Agricultural Engineering; and Marvin P. Steinberg, Food Science.
4:00 p.m., 426 Mumford Hall.

November 30 Report on the Pakistan Agricultural Education, Research, and Extension Project - Design Team Members, UIUC.
4:00 p.m., 426 Mumford Hall.

VISITORS RECENTLY ON CAMPUS

Josef Hagin, Faculty of Agriculture, Israel Institute of Technology, Haifa, discussed a proposed cooperative research project with Frank J. Stevenson, Robert G. Hoeft, and Fred E. Below, Agronomy, August 3 to 6. Prof. Hagin's visit was coordinated by L. Touby Kurtz, Agronomy emeritus.

Shunitiro Suda, T. Sakata and Company, seed growers and breeders, Yokohama, Japan, visited Gail M. Fosler and the UIUC Flower Trials on August 6. This firm contributes seed and funds for the Trial Garden program.

King-Thom Chung, Microbiology Department, Soochow University, Taipei; Rong Tyng Lin and Ji-Chern Lin, Energy and Mining Research Service, Taipei; and J. C. C. Wang, Taiwan Livestock Research Institute, Tainan, Taiwan, met with Donald L. Day and T. H. Chen, Agricultural Engineering, to discuss energy and feed from biomass, August 22 to 24.

Mantel Sindazi, Department of Agriculture, Lusaka, Zambia, and currently a student at the University of Maryland, Eastern Shore, discussed microbial conversion of biomass into fuels, feed, and fertilizer with Donald L. Day, T. H. Chen, and Cephas Msipa, Agricultural Engineering, August 18.

Recent visitors with the Agronomy Corn Group include Hans Geevers, Summer Grain Sub-Centre, Pietermaritzburg, South Africa, August 31 to September 2, and Marton Herczeg of the Hungarian Academy of Sciences, September 21 to 22

G. R. Tanwir, Dean of the Faculty of English, University of Agriculture, Faisalabad, Pakistan, visited the Forestry Department and met with William N. Thompson, Office of International Agriculture, September 2.

A five-member soybean team from Heilongjiang Province, People's Republic of China, visited UIUC on September 2 to discuss soybean production and processing. The team met with Harold E. Kauffman, INTSOY, Earl D. Kellogg, Office of International Agriculture, Richard L. Bernard, Agronomy, Royce A. Hinton, Agricultural Economics, and Lun-Shin Wei, Food Science. They were escorted by Terry Foley, American Soybean Association.

Peter Meiring, University of Natal, Pietermaritzburg, South Africa, visited with Carroll E. Goering, J. Kent Mitchell, and John C. Siemens, Agricultural Engineering, from September 7 to 9.

Jack D. Johnson and Michael E. Norvelle, International Agricultural Programs Office, University of Arizona, visited UIUC on September 8 to study the organization and administration of the Office of International Agriculture.

Nine Brazilian agriculturalists discussed the size and quality of this year's soybean crop in the U.S. and Brazil, and the outlook for the 1984 crop with Darrel L. Good, Agricultural Economics, September 9.

Nyombo Kapambwe, Department of Agriculture and Rural Development, Kinshasa, Zaire, met with Robert E. Brown, OIPS, and discussed corn and soybean production with Harold E. Kauffman, INTSOY, and Joseph A. Jackobs and George F. Sprague, Agronomy.

Anil K. Chopra, Director, Haryana Dairy Cooperative Federation Ltd., India, met with Michael Grossman, Dairy Science, to discuss the breeding and genetics program, September 14.

A 23-member team from the Tokyo Grain Exchange met with faculty in Agricultural Economics and the Office of International Agriculture, September 14. Discussions included the role and history of soybeans in U.S. agriculture and the present soybean export and marketing situation.

Collin S. Hawkins, Department of Agriculture and Fisheries, Pretoria, South Africa, discussed tractor fuels and research on vegetable oil fuels with Agricultural Engineering faculty on September 19.

Jeff and Helen Micklem, farmers from Zimbabwe, visited UIUC on September 19 and 20 as part of a two-week U.S. tour awarded for winning a corn production contest. They discussed corn and soybean production with John C. Siemens, Agricultural Engineering, and L. Frederick Welch, Gary E. Pepper, and Ellery L. Knake, Agronomy.

The College of Agriculture and the College of Veterinary Medicine welcome the following new foreign graduate students to the University of Illinois at Urbana-Champaign:

AGRICULTURAL ECONOMICS: ANDRES ABRAMOVICH, Argentina, production economics; SYED ARIF, India, production economics; AFLA AYEMOU, Ivory Coast, international agricultural economics; NEN-JING CHEN, Taiwan, agricultural marketing; HABIB FETINI, Tunisia, project analysis and evaluation; NOBUMASA HACCHO, Japan, international agricultural economics; HUEI-LING HOU, Taiwan, agricultural marketing; FRANCIS JACKSON, Sierra Leone, agricultural finance; TAE-HO KIM, Korea, agricultural marketing; GOPAL NAIK, India, agricultural marketing; LARE SISAY, Gambia, international agricultural economics; KIM LAI TAN, Malaysia, production economics; JAMES TAYLOR, Ghana, international agricultural economics; RAVI VENKATARAMAN, India, agricultural finance.

AGRONOMY: USHA BARWALE, India, microbiology; SHANKAR KOTHARI, India, plant cell tissue; MAWSUN LIN, Taiwan, plant breeding and genetics; DESIREE MANANCIO, Philippines, plant breeding; SHOJI MIZUNO, Japan, environmental modeling.

ANIMAL SCIENCE: GHAZI F. BASIOUNI, Saudi Arabia, reproductive physiology; BALAAM MUJUNI, Uganda, environmental physiology; HIROYUKI SATO, Japan, swine nutrition; HENRY SOTO, Costa Rica, animal breeding; BAMBANG SRIGANDONO, Indonesia, poultry and nutrition; MOHAMMAD S. ZINO, Iraq, microbiology.

DAIRY SCIENCE: JOHN J. KLIR, Czechoslovakia, genetics.

FOODS AND NUTRITION: SOON YOUNG SONG, Korea, foods and nutrition; YUKIKO TAKAHASHI, Japan, nutrition.

FOOD SCIENCE: CHIH H. CHANG, Taiwan, food processing and engineering; JOSE B. CHAVES, Brazil, food processing and engineering; YAAKOB B. CHEMAN, Malaysia, food processing; JEONG RO PARK, Korea, nutritional sciences; SANG-KYU PARK, Korea, food chemistry; MOHAMMED SAEED, Pakistan, food processing.

FORESTRY: JANET LI-CHEN CHANG, Taiwan, wood science.

HORTICULTURE: JOONSOO CHOI, Korea, turf grass; HAFIZ INAYATULLAH, Pakistan, vegetable crops; JAMAL SAWWAN, Jordan, environmental horticulture.

HUMAN DEVELOPMENT AND FAMILY ECOLOGY: SARINA PARANJAPPE, India, international family; BIH'YUN WANG, Taiwan, child development.

PLANT PATHOLOGY: CAIO MACHADO, Brazil, soybean pathology.

TEXTILES, APPAREL, AND INTERIOR DESIGN: VIVIEN WANG, Taiwan, textiles and apparel.

VETERINARY MEDICINE: ANTONIO DE PINHO MARQUES, Brazil, veterinary bioscience; EL-SAYED M. FATOH, Egypt, veterinary clinical medicine; NINOKA MADRID, Venezuela, veterinary clinical medicine.

VISITORS COMING TO CAMPUS

Jens L. Torp, The Royal Veterinary and Agricultural University, Copenhagen, Denmark, will meet with faculty in Agronomy, October 2 to 9, to gather information on corn breeding and production.

A *Populus* study group from the People's Republic of China will visit Jeffrey O. Dawson and Jalmer J. Joke-la, Forestry, to discuss Illinois cottonwood breeding projects, October 4.

Frederick C. Hutchinson, Executive Director, Board for International Food and Agriculture, will visit UIUC on October 12 and 13 to discuss Title XII programs. He will present a seminar on October 12 entitled "The Role of Universities in Meeting World Food Needs" (see seminar listing).

Zhu Qing-lin, Yu Yu-jun, He Yuan-kang, Li Jin-du, and Kong De-gian, Northwest College of Agriculture, Wugong, Shaanxi, China, will discuss plant genetics and breeding with Agronomy faculty, October 15 to 22. To meet with this group contact John W. Santas, 113 Mumford Hall, 333-3638.

J. Brian McQuitty, Department of Agricultural Engineering, University of Alberta, Edmonton, Canada, will visit

UIUC from October 17 to 21 to discuss developments and trends in farm buildings. His visit is being arranged by Arthur J. Muehling, 212 Agricultural Engineering, 333-9313.

Adel Hamid El Farra, Egyptian Ministry of Agriculture, will visit UIUC from October 23 to 30 to take part in a program on techniques involved in processing soybeans for human food.

Rita Hermien Day-Haverkamp, Head of the Social Department, Board of Guardianship, Suriname, will visit Human Development and Family Ecology on October 20. She is interested in the rights of the child. To meet with her contact Rand Conger, 201 Child Development Laboratory, 333-0896.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign, 61801; Bonnie Irwin, editor. Faculty and Departments are encouraged to submit Newsletter items. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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November 1983 No. 66

INTERNATIONAL ACTIVITIES

Janice M. Bahr, Animal Science, lectured at the International Seminar on Catecholamines as Hormone Regulators, Indianapolis, Indiana, September 12 to 14. Dr. Bahr's topic was "The Role of Catecholamines in Ovarian Function."

Munir Cheryan, Food Science, presented a paper on the effect of selected processing methods on the antinutritional factors in dry beans at the Sixth World Congress of Food Science and Technology, Dublin, Ireland, September 18 to 24.

John H. Behrens, Agricultural Communications, taught audio-visual communication techniques to students in the Diploma in Extension Program, University of the West Indies, St. Augustine, Trinidad, October 7 to 21. He also reviewed audio-visual equipment needs for the Regional Extension Communications Unit.

Lawrence E. Datnoff, Plant Pathology, traveled to Mt. Makulu, Zambia, in October as a participant in the special studies portion of the Zambia Agricultural Research and Extension Project (ZAMARE). He will be conducting long-term studies on the epidemiology of *Pyrenochaeta* leaf spot and other soybean diseases.

Lowell D. Hill and Susan E. Offutt, Agricultural Economics, traveled to Cergy, France to conduct a planning

session for an international conference on trade policies, September 23 to October 8. The trip was organized by universities in the United States and Europe.

Following the planning session, Dr. Offutt delivered seminars at the Organization of Cooperation and Development, Paris, France, and the European Commission, Brussels, Belgium.

Marvin R. Paulsen, Agricultural Engineering, participated in the International Conference on Robotics and Intelligent Machines in Agriculture, Tampa, Florida, October 2 to 4.

Daniel Gianola, Animal Science, was invited to present papers at the Annual Meeting of the European Association of Animal Producers, Madrid, Spain, October 3 to 6.

Chester B. Baker, Agricultural Economics, participated in the Seventh World Congress on Agricultural Credit, St. Louis, Missouri, October 3 to 6.

Andrew J. Sofranko, Agricultural Economics, traveled to Gosler, West Germany to present a paper at the International Symposium on the Provision of Housing and Human Settlements, October 2 to 9.

Robert G. Hoeft, Agronomy, presented a paper entitled "Economics of Anhydrous Ammonia Use" at the International Fertilizer Industry Association, Copenhagen Denmark, September 25 to October

1. From October 1 to 6, Dr. Hoeft visited the SKW Company and the staff at the University of Munich, West Germany.

Mastura Raheel, Textiles and Interior Design, presented a paper at the Fifth International Conference of Textile Education in Biella, Italy, October 5 to 10. Dr. Raheel also attended the International Textile Machinery Exhibit, Milan, Italy, October 11 to 19.

Virginia Kopp, undergraduate student in Forestry, spent the summer at the University of Freiburg, West Germany, as part of an informal student exchange.

Harold E. Kauffman, INTSOY, and Emerson D. Nafziger, Agronomy, participated in the conference "Agriculture with a World Perspective" sponsored by the Mennonite Central Committee in Akron, Pennsylvania, October 7 to 9.

John W. Santas, Office of International Agriculture, and Barbara A. Yates, Educational Policy Studies, participated in a site-evaluation visit on October 11 at the University of Arkansas for the design phase of the USAID-Rwanda Cropping Systems Improvement Project. Collaborating with UIUC are the University of Arkansas as lead university, the University of Minnesota, University of Puerto Rico, and Lincoln University.

Earl D. Kellogg, OIA, will participate as the UIUC representative in a contracting university executive visit to the Zambia Agriculture Research and Extension (ZAMARE) project, December 4 to 16. Chancellor William P. Hytche, University of Maryland, Eastern Shore, and Dean Gilbert Kroening, College of Agriculture, Southern Illinois University, Carbondale, will represent their respective universities. They will review the overall progress of the project from the perspective of the contracting universities. The ZAMARE program is administered jointly by the

Zambian Ministry of Agriculture and Water Development and UIUC, SIU-C, and UMES.

William N. Thompson, Earl D. Kellogg, Thomas A. McCowen, OIA, and Jack B. Claar, INTERPAKS, will attend the meetings of the National Association of State Universities and Land-Grant Colleges, Washington, D.C., November 14 to 16. They will be attending several sessions of the International Division of NASULGC.

Sam H. Johnson, III, Agricultural Economics, Jack B. Claar, INTERPAKS, Carolyn M. Pribble, Earl D. Kellogg, Office of International Agriculture, and Upson S. Garrigus, Animal Science, will participate in the Farming Systems Research Symposium at Kansas State University, Manhattan, Kansas, October 31 to November 2. Drs. Kellogg and Johnson organized a session on "The Role of Extension in Farming Systems Research Programs."

VISITORS RECENTLY ON CAMPUS

Istvan Kiss, Hybrid Seed Production Cooperative of Babolnai, Hungary, visited the maize genetics laboratory in Agronomy on September 21.

Sixteen agriculturalists from Zimbabwe visited UIUC to discuss corn and soybean production and soil management practices, September 22. They met with John C. Siemens, Walter D. Lembke, Agricultural Engineering, John D. Alexander, and L. Frederick Welch, Agronomy. The group was escorted by Lyle Reeser, Caterpillar Tractor Co.

S. Galal and A. Salem, faculty members at the University of Cairo, Egypt, discussed the variety testing program, intercropping of corn and soybeans, and soybean germplasm with INTSOY staff, September 24 to 26.

Twenty-eight South African farmers visited UIUC on September 26 for a

presentation on Illinois agriculture. Lectures were given by Robert D. Walker, Cooperative Extension Service, Allan G. Mueller, Agricultural Economics, John C. Siemens, Agricultural Engineering, Ellery L. Knake, Darryl A. Miller, Agronomy, Donald E. Kuhlman, and Kevin L. Steffey, Agricultural Entomology. The group also visited the Farm Progress Show in Iowa, and farms in Wisconsin and Iowa.

A four member team from the People's Republic of China studying edible soy protein visited UIUC on October 3. They met with L. S. Wei and John W. Erdman, Food Science, to discuss soy-food processing and soybeans and human nutrition. The group was escorted by Beth Branthaver, American Soybean Association.

Ingemar Nilsson, Federation of Swedish Farmers, Stockholm, Sweden, discussed grain marketing and trade, and agricultural policy with Agricultural Economics faculty, October 24. Mr. Nilsson also toured The Andersons regional grain marketing terminal and observed corn processing at Illinois Cereal Mills, Paris, Illinois. His trip was sponsored by the United States Information Agency.

Eight agronomists from Argentina discussed tillage practices, corn and soybean production, and applications of computers to farm management with John C. Siemens, Agricultural Engineering, Gary E. Pepper, Ellery L. Knake, Agronomy, Roy Wendte, and Kate Mayberry, Agricultural Economics, October 3. The tour for this group was arranged by Asgrow Seeds.

A team of four agricultural engineers from the People's Republic of China met with Douglas B. Bauling, Agricultural Experiment Station, to tour the new Agricultural Engineering Sciences Building and Arthur J. Muehling, Agricultural Engineering, to discuss the planning and construction of farm buildings, October 6.

Steve Perren, University of New England, Armidale, NSW, Australia, visited faculty in Agricultural Engineering and presented a seminar, "Soil Erosion Problems in the Australia Wheatbelt", October 21.

Frederick E. Hutchinson, Executive Director, Board for International Food and Agricultural Development, visited the University of Illinois October 12 and 13 to discuss Title XII programs. Dr. Hutchinson also presented a seminar on the organization of BIFAD and its role in international development.

Thomas Henderson, University of the West Indies, St. Augustine, Trinidad, and Anthony Philgence, Senior Agricultural Extension Officer, St. Lucia, visited UIUC to review progress on the USAID Agricultural Extension Project in the Caribbean. Mr. Philgence was recently named "Outstanding Extension Agent in the Caribbean." Their trip was sponsored by MUCIA and the Office of International Agriculture.

VISITING RESEARCHERS

Ljuben Trajkov, University of Skopje, Yugoslavia, is spending the fall semester at UIUC working with the Agricultural Economics staff and with John M. Gerber, Horticulture. Mr. Trajkov, a participant in the International Farm Agricultural Exchange (IFAE) Program, is interested in the marketing of agricultural products, especially vegetables.

Daniel B. Okai, University of Science and Technology, Kumasi, Ghana, arrived in September for four month's research on amino acids in feed ingredients and feed. Dr. Okai, a Fulbright scholar, is working with Robert A. Easter and other faculty in Animal Science.

Blandina de Mesa, Philippine Council for Agriculture and Resources Research and Development (PCARRD) arrived Sep-

tember 18 to pursue a two-month study program in the Office of Agricultural Communications. Her program concerns instructional communications prototypes for agricultural extension.

Nikla Tomov, Director of the Bulgarian National Program for Maize Breeding and Production, Kneja, Bulgaria, was a visiting researcher with the corn group during October.

GERMAN ACADEMIC EXCHANGE SERVICE

The German Academic Exchange Service offers a number of full scholarships to American students in all fields for graduate or postdoctoral studies in German institutions during the academic year 1984-85. A good knowledge of German is required. For further information contact Karl H. Schoeps, Office of West European Studies, 3021 Foreign Languages Building, 3-6663.

SEMINARS

November 9 Household Economic Strategies: A Comparison of Commercial Vegetable and Subsistence Farmers in the Highland Philippines - Jean Trelogen Peterson, Human Development and Family Ecology.

4:00 p.m., 426 Mumford Hall.

November 16 Egypt/UIUC Project on Microbial Conversion of Biomass into Fuels, Feed, and Fertilizer - Mostafa El-Kattan, Agricultural Research Center, Giza, Egypt; Donald L. Day, Agricultural Engineering; and Marvin P. Steinberg, Food Science.

4:00 p.m., 426 Mumford Hall

November 30 Report on the Pakistan Agricultural Education, Research, and Extension Project - Design Team Members, UIUC.

4:00 p.m., 426 Mumford Hall.

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December 1983 No. 67

INTERNATIONAL ACTIVITIES

Daniel Gianola, Animal Science, visited the Centre National Recherches Zootechniques, Jouy-en-Josas, France, to present a seminar on sire evaluation and discuss the estimation of genetic parameters in the presence of selection and assortative mating, October 10 to 14.

George Z. Gertner, Forestry, presented a paper entitled "Using Computer Simulation Models to Design Future Thinning Experiments" at the International Conference on Growth and Yield, Budapest, Hungary, September 27. Dr. Gertner also presented an invited paper at the International Conference on Problems in Forest Biomass Growth and Yield Studies, Orleans, France, October 4.

Bruce Brodie, Veterinary Clinical Medicine, is in Alexandria, Egypt, through March 1984 implementing a project dealing with "Water Buffalo Infertility Under Village Conditions." The project is funded by the University Linkage Program, which has USAID support.

John W. Santas, OIA, attended a seminar entitled "Models of Development for Latin America" and participated in the annual convention for recipients of the Partners of the Americas/Kellogg Foundation Fellowships in International Development in Merida, Mexico, November 12 to 19.

Dr. Santas also traveled to the state of Sao Paulo, Brazil to identify possible agriculture projects and to discuss cooperation between INTSOY and the IICA/ConoSur/BID project, November 20 to December 5.

Harold E. Kauffman, INTSOY, was an observer at the International Agriculture Research Centers Week meeting of the Consultative Group on International Agriculture Research held at The World Bank, Washington, D.C., October 31 and November 1.

L. S. Wei, Food Science, Karl Weingartner, recent graduate of Food Science, and Alvin I. Nelson, Professor Emeritus, Food Science, will participate in the African Soybean Utilization Workshop in Ibadan, Nigeria, December 1 to 9. The workshop is jointly sponsored by INTSOY, the International Institute of Tropical Agriculture (IITA), and the American Soybean Association. Harold E. Kauffman, INTSOY, will attend part of the workshop and discuss collaborative activities with IITA, November 28 to December 7.

Mohamed E. Sarhan, Agricultural Economics, is in Kampala, Uganda until mid-December to work on a livestock marketing project funded by the World Bank.

Burton E. Swanson, INTERPAKS, traveled to Rome, Italy to discuss the progress of the FAO Agricultural Extension

Manual with W. D. Maalouf, Agricultural Education and Extension Service, FAO, November 5 to 22. Dr. Swanson also visited Niels Roling, Agricultural University at Wageningen, to discuss agricultural extension, November 22 to 23.

Jack B. Claar, INTERPAKS, will travel to Sierra Leone to conduct extension evaluation as a consultant for USAID, January 8 to 15.

Theodore Hymowitz and Jack M. Widholm, Agronomy, participated in the Agri-genetics contract holders meetings in Cancun, Mexico, November 22 to December 4. Dr. Widholm reported on a soybean project that the association is supporting.

William G. Ruesnik, Agricultural Entomology, participated in the International Congress of Plant Protection in Brighton, England, November 20 to 25. He presented a poster co-authored with Michael E. Irwin, INTSOY, entitled, "A Model for the Impact of Soybean Mosaic Virus in Soybean."

Cleora J. D'Arcy, Plant Pathology, will travel to CIMMYT, El Batan, Mexico, to make a presentation on the purification and assay of barley yellow dwarf, a viral disease of small grains, December 6 to 8.

William N. Thompson, OIA, has been reappointed by Governor James Thompson as a member of the Illinois Agricultural Export Advisory Committee.

James B. Sinclair, Plant Pathology, traveled to Milan, Italy to present an invited paper at the CRSP International Sorghum and Millet Project on control of root and stalk rot diseases, November 27 to December 2.

Ronald G. Dedert, Research Liaison Extension Officer for the ZAMARE Project stationed in Kabwe, Zambia, will attend the Annual Extension Conference of the Illinois Cooperative Extension

Service held at UIUC, December 5 to 9.

VISITORS RECENTLY ON CAMPUS

Ben Mweene, Deputy Vice-Chancellor, University of Zambia, visited UIUC November 13 to 16 to discuss potentials for developing a Memorandum of Understanding between the University of Illinois and the University of Zambia for faculty and student exchange.

A group of seven meat packers representing the Japan Hamburg and Hamburger Association, Tokyo, Japan, visited the Meat Science Laboratory and Animal Science faculty, November 15. The group is interested in the American fast-food industry.

Geronimo J. Jamero, Farm Factors, Inc., Philippines discussed soil testing equipment, procedures, and interpretation of results with Theodore R. Peck, Agronomy, October 20.

Christo Mermersky, Bulgarian Agricultural Attache, Washington, D.C., discussed Dairy Automation with Hoyle B. Puckett, Agricultural Engineering, October 18. Dr. Mermersky was a visiting scholar in Agricultural Engineering several years ago.

Di Yuan-bo, Beijing College of Agriculture, People's Republic of China, visited Plant Pathology and presented a seminar on his phyto bacteriology research in China, October 24. Dr. Di is currently Visiting Professor, University of Wisconsin, Madison.

Takamoto Kamiya, Institute of Kyodo Milk Industry Company, Ltd., Tokyo, Japan, discussed soy beverage and tofu production with L. S. Wei, Food Science, October 26 and 27.

G. M. Khattak, Chair, Pakistan University Grants Commission, and formerly Vice-Chancellor, Northwest Frontier Province Agricultural University,

visited UIUC, November 8 to 15, to work on planning of the Pakistan Agricultural Education, Research and Extension Project with Thomas A. McCowen and William N. Thompson, OIA.

A team of scholars from East China University of Water Resources, People's Republic of China, discussed water related curricula with J. Kent Mitchell, Agricultural Engineering, October 26.

Adel Hamid El Farra, Egyptian Ministry of Agriculture, spent a week in October visiting faculty in Food Science to view soy utilization experiments.

Five plant geneticists from the People's Republic of China visited UIUC November 27 to 30 to discuss corn and soybean genetics with faculty in Agronomy and the Agricultural Experiment Station. Following their visit the group traveled to the University of Wisconsin-Madison and Cornell University.

VISITORS COMING TO CAMPUS

Guillermo Gallacher and Maria de Nuria Dufour, National University of Buenos Aires, Argentina, will visit faculty in Agricultural Engineering and Agricultural Economics, December 1 to 4. Their visit is part of an eight-week study tour in the United States funded by UNESCO.

VISITING RESEARCHERS

Rajinder Nanda, Ministry of Food and Agriculture, India, will arrive December 4 for four month's of study with Joseph T. Woolley, Agronomy. Dr. Nanda is the recipient of an FAO fellowship.

Daniel B. Okai, University of Science and Technology, Kumasi, Ghana, is a Fulbright Scholar conducting research on the nutritive value of feeds and feed ingredients with Robert A. Easter, Animal Science.

Joong-Man Kim, Wonkwang University, Korea is taking a year-long sabbatical at UIUC to do soyfood research with L. S. Wei, Food Science.

Qu Ya-lian, Institute for Information of Agricultural Science and Technology, Chinese Academy of Agricultural Sciences, Beijing, China, will spend one year at UIUC as a visiting scholar. She will work on the management of entomological information with Jenny Kogan, INTSOY.

Feng Jie-liu, Henan Province, People's Republic of China, will spend the next year as a visiting scholar in Veterinary Medicine. She will do research in parasitology with Kenneth S. Todd, Veterinary Pathobiology, and Norman D. Levine, professor emeritus, Veterinary Medicine.

G. S. Miranpuri, Indian Veterinary Research Institute, Itaznagar, India, has joined Veterinary Pathobiology as an NIH post doctoral fellow. Dr. Miranpuri will be working with Miodrag Ristic, Veterinary Pathology.

RWANDA CROPPING SYSTEMS PROJECT

The University of Arkansas as the lead institution in collaboration with the University of Illinois, the University of Minnesota, the University of Puerto Rico, and Lincoln University, has been requested to negotiate a contract with USAID to implement a cropping systems improvement project in Rwanda, East Africa.

LANGUAGE FELLOWSHIPS

January 23, 1984 is the application deadline for Title VI Summer Intensive Language Fellowships awarded by the Center for Latin American and Caribbean Studies. The fellowships are to be used for study of Brazilian Portuguese, Amerindian languages, and Latin American Spanish at any qualified institution in the United States and abroad.

NEW WID COURSES

The Office of Women in International Development is offering two new courses for Spring 1984. Consumption in Developing Countries, FACE 379A, taught by Francis Magrabi and Kristin Kline, will focus on consumption needs in the third world. The Family in International Settings, HDFE 388C, taught by Jean Peterson, will examine the impact of development on the family. For more information about these courses and other international courses relating to women and the

third world, call Margo De Ley, WID, 3-1977.

INTERNATIONAL TRAINING COURSE

INTERPAKS will offer a five-week short course for overseas administrators of extension services, September 17 to October 19, 1984. It will be aimed at senior staff in extension positions and will cover aspects of directing and operating extension services. The teaching staff will be from UIUC, and represent several disciplines. For more information contact J. B. Claar, INTERPAKS, 3-4340.

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International Agriculture Newsletter



College of Agriculture & College of Veterinary Medicine, University of Illinois at Urbana-Champaign

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January 1984 No. 68

INTERNATIONAL ACTIVITIES

Walter D. Lembke, Agricultural Engineering, and John W. Santas, CIA, are members of the UIUC International Student Affairs Advisory Committee for 1983-1984.

John Bowman, recent graduate in Plant Pathology, has accepted a postdoctoral position as breeder/pathologist at the Centro Internacional de Mejoramiento de Maiz y Trigo (CIMMYT), Mexico.

David H. Baker, Animal Science, presented a series of lectures on the potential of amino acids in food and feed supplementation in West Germany, October 30 to November 6.

Thomas L. Frey, Agricultural Economics, spoke at the Farm Financial Management Program, Halifax, Canada, November 7. The program was sponsored by the Royal Bank of Canada.

Munir Cheryan, Food Science, gave an invited paper on methods of improving productivity of enzymatic and microbial conversion processes using membrane bioreactors at the International Membrane Technology Conference, Sydney, Australia, November 8 to 10. Dr. Cheryan also visited the University of New South Wales and Hawkesbury Agricultural College.

Loren E. Bode, Agricultural Engineering, presented a paper at the 10th International Congress of Plant Protec-

tion, Brighton, England, November 20 to 25.

Daniel Gianola, Animal Science, was an invited speaker at the Conference on Artificial Insemination and Animal Breeding, Toulouse, France, November 21 to 25. His participation was sponsored by the French Ministry of Foreign Affairs.

Donald F. Schoeneweiss, Plant Pathology and Illinois Natural History Survey, presented a paper entitled "Summary and Synthesis of Physiological and Environmental Factors in Root and Stalk Rot Diseases" at the Consultative Group Discussion on Research Needs and Strategies for Control of Sorghum Root and Stalk Rot Diseases. Sponsored by ICRISAT and INTSORMIL, the meeting was held at Bellagio, Italy, November 27 to December 2.

Eugene E. Killion, Economic Entomology, presented lectures entitled "Pesticides and Honey Bees in Illinois" and "Management for Comb Honey Production" at the annual meeting of the Ontario Beekeepers' Association, Toronto, Canada, November 29 and 30.

Henryk Jedlinski, USDA and Plant Pathology, and Cleora J. D'Arcy, Plant Pathology, attended the International Barley Yellow Dwarf Virus Workshop at CIMMYT, Mexico, December 5 to 9.

Violet M. Malone, Extension Education, conducted a two-day staff development

workshop on Volunteer Management in Rural Organizations, Guelph, Ontario, December 13 and 14.

Luis R. Zavaleta, Agricultural Entomology, will be on leave of absence in 1984 to conduct research with the Instituto Internacional de Cooperacion para la Agricultura, Lima, Peru.

Frank J. Stevenson, Agronomy, will present the keynote lecture and a paper on nitrogen transformations in soil at the International Symposium on Nitrogen and Ecosystems, Lahore, Pakistan, January 2 to 16.

Jack M. Widholm, Agronomy, will present an invited paper entitled "Selection and Characterization of Plant Cell Mutants for Molecular Biology Studies" at a plant microbiology conference in Jerusalem, Israel, January 9 to 13.

James B. Sinclair, Plant Pathology, and Earl D. Kellogg, Thomas A. McCowen, and John W. Santas, OIA, will participate in the Title XII seminar on international agriculture policy being held at the University of Arkansas, Fayetteville, January 8 to 10.

Chia V. Yapi, a graduate student from the Ivory Coast in the Department of Animal Science, was awarded a scholarship to attend the 1984 International Stockman's School, San Antonio, Texas, January 8 to 13. The school is sponsored by Winrock International.

Earl D. Kellogg, Office of International Agriculture, will speak on understanding world hunger at the Quad Cities Development Education Group, January 17.

Carolyn M. Pribble and Earl D. Kellogg, OIA, will be in Zambia from January 22 to February 4 with William P. Hytche, Chancellor, University of Maryland, Eastern Shore, and Gilbert Kroening, Dean, School of Agriculture, Southern Illinois University at Car-

bondale, for an executive visit to the Zambian Agricultural Research and Extension project (ZAMARE).

Sam H. Johnson, Agricultural Economics, will be in Bangladesh from February 3 to March 10 working with staff at the Bangladesh Agricultural Research Council. From March 11 to 18 he will be at Chiang Mai University, Thailand, discussing a study on the economics of soybean production. Dr. Johnson will also visit the Asian Vegetable Research and Development Center, Taiwan, to assist Jane Gleason, Ph.D. student in Agricultural Economics, in planning her field research on farmer decision making.

James B. Sinclair, Plant Pathology, will visit Zambia, Zimbabwe, Kenya, and Nigeria as part of a research project on Pyrenochaeta leafspot of soybean, February 3 to March 2.

INTERPAKS INTERCHANGE NEWSLETTER

Volume 1, Number 1 of INTERPAKS Interchange was published in November 1983. INTERPAKS, the International Program for Agricultural Knowledge Systems, is a new, interdisciplinary program at UIUC dedicated to improving the transfer and utilization of knowledge in developing countries. A copy of the newsletter can be obtained from the INTERPAKS Office, 113 Mumford Hall.

INTERPAKS TRAINING COURSE

INTERPAKS is sponsoring a five-week short course for overseas administrators of extension services from September 17 to October 19, 1984. The course will cover all aspects of directing and operating extension services, including study of alternative systems and the essential conditions for effectiveness. Additional information on the short course is available from Burton E. Swanson, 3010 Foreign Languages Bldg., 333-1993.

SEMINAR

January 25 Transformation for Rural Development in Tanzania - B.C. Nindi, visiting Fulbright scholar from the University of Dar es Salaam, Tanzania.

4:00 p.m., 426 Mumford Hall.

INTERNATIONAL AG INTERN PROGRAM

The Ohio State University International Agricultural Intern Program provides short-term (1 to 3 months) and long-term (4 to 12 months) opportunities for study and on-the-job training for agricultural students. Participating countries include the United Kingdom, France, Germany, the Netherlands, and Switzerland. Further information is available from Charles E. Olson, 104 Mumford Hall, 333-3380.

VISITING RESEARCHERS AND TRAINEES

Peter Egwin, Eugenia Medical School, Department of Biochemistry, Nigeria, is a visiting scholar in the Department of Food Science. He is working with Fred A. Kummerow on heart disease research.

Tom Aire, Professor and Head of the Department of Veterinary Anatomy, University of Ibadan, Nigeria, will conduct research on spermiogenesis and sperm maturation in the Morphology Division of Veterinary Biosciences. Dr. Aire arrived in December and can be contacted at 333-6825.

Malika Bouquentar, Institute Agronomique et Veterinaire, Rabat, Morocco, arrived at UIUC January 4 to begin a one-year nondegree program with James B. Sinclair, Plant Pathology. Ms. Bouquentar is sponsored by the U.S. Agency for International Development through a University of Minnesota project.

VISITORS RECENTLY ON CAMPUS

Recent visitors with Fred A. Kummerow, Food Science, include Peter Frangopol, Head of the Department of Biophysics, Institute of Physics, Bucharest, Romania, October 26 to November 5; and Nicholi Balta, Department of Cardiology, Bucharest Medical School, Romania, November 7 to 10.

Leif Berndtsson, Economic adviser for the County Agriculture Board, Sweden, met with Duane E. Erickson, Charles E. Cagley, Delmar F. Wilken, Royce A. Hinton, Steven T. Sonka, and Richard P. Kelser, all in Agricultural Economics, on October 24. His schedule was arranged by Thomas L. Frey.

F. Andrew Smith, University of Adelaide, Australia, discussed research on nitrogen metabolism with John S. Titus, Horticulture, November 1.

S. Smith, Waite Agricultural Research Institute, University of Adelaide, Australia, visited UIUC and the College of Agriculture, November 1 and 2.

Abdullah Ali, Rector, Universitas Syiah Kuala, Darussalam, Banda Aceh, Indonesia, visited the College of Agriculture from November 20 to 25. Dr. Ali received his Ph.D. in 1976 from Animal Science.

Luis Silvela Sangro, INIA, Madrid, Spain, spent the week of November 28 with the Maize Genetics Group in Agronomy.

H.A. Al-Jibouri, FAO/Rome, met with INTSOY staff on December 5 to discuss a soybean production short course to be held in Turkey in 1984. Dr. Al-Jibouri also discussed FAO work in China with Robert W. Howell, Agronomy, and James B. Sinclair, Plant Pathology.

Li Guang-Yi, Northwestern College of Forestry, Wu-Guang, Shaanxi, China, visited Poo Chow and others in Forestry during the week of January 3.

Jose Carlos Paes de Almeida, Rotary International Exchange participant from Sao Paulo, Brazil, met with Danny R. Erickson, Theodore Hymowitz, and Joseph A. Jackobs, Agronomy, James B. Sinclair, Plant Pathology, and Thomas A. McCowen and John W. Santas, OIA, on December 7. His schedule was arranged by J.M. Schultz Seed Co., Dieterich, Illinois.

H.C. Dubourquier and G. Albagnac, INRA Research Center, Lille, France, discussed research on bacteria from methanogenic ecosystems with Marvin P. Bryant, Microbiology Division of Dairy Science, December 5 to 7.

Ronald G. Dedert, ZAMARE project research liaison extension officer, visited William N. Thompson and others in OIA, Director William R. Oschward, Cooperative Extension Service, and William H. Luckmann, Agricultural Entomology, December 6 to 8.

David J. Miller, Agriculture Communication and Training Systems (ACTS), Columbia, Missouri, visited UIUC on December 12 and 13 to meet with INTERPAKS staff, including J.B. Claar, INTERPAKS Director, Jerry W. Robinson, Agricultural Economics, James F. Evans, Agricultural Communications, and Burton E. Swanson, Vocational and Technical Education. Mr. Miller also met with William R. Oschwald, Cooperative Extension Service.

James F. Ragin, Chief of Party, ZAMARE project, Zambia, spent December 20 and 21 with OIA staff to review progress of the project.

Karel Vorisek, University of Agriculture in Prague, Czechoslovakia, met with Carl M. Parsons and others in Animal Science from January 3 to 8 to discuss research on the effects of intestinal microflora on nutrient utilization in animals.

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February 1984 No. 69

INTERNATIONAL ACTIVITIES

Martin M. Meyer, Horticulture, attended the 33rd annual meeting of the International Plant Propagators Society, Washington, D.C., December 3 to 6.

Jack B. Claar, INTERPAKS, was in Sierra Leone for two weeks in January on an extension evaluation project with the U.S. Agency for International Development (USAID).

Earl D. Kellogg, Office of International Agriculture, made a presentation on public education in food and agricultural development to the Board for International Food and Agricultural Development (BIFAD), Washington, D.C., January 5.

On January 11 Dr. Kellogg presented a paper on world hunger at a forum entitled "Changing Face of World Hunger," Decatur, Illinois.

James W. Smith, graduate student in Dairy Science from Guyana, and Alan Chestnut, graduate student in Animal Science, were awarded scholarships to attend the 1984 International Stockman's School, San Antonio, Texas, January 8 to 13. The school is sponsored by Winrock International.

The Illinois Agricultural Leadership Seminar on U.S. Economic, Agricultural and International Trade Policy was held at UIUC from January 12 to 14. The program was planned by Harold D. Guither, Robert G.F. Spitze, and

Lowell D. Hill, Agricultural Economics; and Earl D. Kellogg, OIA.

Mary Keith, Foods and Nutrition, and Earl D. Kellogg, Office of International Agriculture, spoke about world hunger and malnutrition during a program for the Quad Cities Development Education Group, January 17, Rock Island, Illinois.

Frederick C. Fliegel and John C. van Es, Agricultural Economics, represented INTERPAKS at the seminar entitled "Strategies for Agricultural Extension in the Third World," held January 18 to 20 at the Agricultural University, Wageningen, Netherlands. They also visited the Agricultural Extension and Rural Development Centre at the University of Reading, England, to obtain information about their certificate and graduate programs for third world extension personnel, and the International Service for National Agricultural Research (ISNAR), The Hague, Netherlands.

Sam H. Johnson, Agricultural Economics, attended the Technical Committee Meeting of the Farming Systems Support Project, University of Florida, Gainesville, January 19 and 20.

William N. Thompson, Office of International Agriculture, participated in the Midwest Universities Consortium for International Activities (MUCIA) board meeting, January 26, Chicago, Illinois.

Lyle E. Hanson, Veterinary Medicine, was in Jamaica the week of January 22 for the Pan American Health Organization's project on control of leptospirosis in animals.

Harold E. Kauffman, INTSOY, spoke about agriculture in less developed countries at the 56th Annual Winter Meeting of the Illinois Chapter of the American Society of Farm Managers and Rural Appraisers, February 2, Decatur.

Richard E. Ford, Plant Pathology, and Michael E. Irwin, Agricultural Entomology, will participate in the annual board meeting of the Consortium for International Crop Protection (CICP), Berkeley, California, February 2 and 3.

VISITORS RECENTLY ON CAMPUS

Brian Dibble, Head of the School of English, Western Australian Institute of Technology, conferred with faculty in Agricultural Communications on January 9 and 10 about the recently-established exchange program in agricultural communications. Dr. Dibble also met with faculty in the Study Abroad Office, and the Colleges of Communications, Liberal Arts and Sciences, and Fine and Applied Arts.

Csaba Lajos Marton, pathologist-breeder with the Hungarian Academy of Sciences, visited the Maize Genetics Group in Agronomy on January 11 and 12. Dr. Marton was sponsored by the U.S. National Research Council.

Liao Jingya, Zhang Xinqin, and Liu Changmo, all in the Bureau of Animal Husbandry, Sichuan Provincial Department of Agriculture and Animal Husbandry, Pu Jiabi, General Station of Breeding and Improvement for Animal and Poultry, Sichuan, and Li Hua, interpreter, People's Republic of China, met with Sidney L. Spahr, Robert A. Easter, and other faculty in Dairy Science and toured the UIUC Dairy Farm on January 17. The team's visit to

UIUC was part of a U.S. tour sponsored by the American Soybean Association (ASA), Winrock International, and the Foreign Agriculture Service of USDA. They were escorted by Terry Foley, ASA's China Office Director.

Howard E. Olson, Director, International Agriculture, Southern Illinois University, Carbondale, visited UIUC on January 19 for discussions on collaborative work in Zambia and Pakistan.

Karel Vorisek, University of Agriculture, Suchdol, Czechoslovakia, visited with Marvin P. Bryant and Robert B. Hespell, Dairy Science, January 5.

VISITING RESEARCHERS

Vijay Chowdhury, Haryana University, Hissar, India, arrived at UIUC in December to work for one year with Jack M. Widholm, Agronomy, on soybean tissue culture.

Phillip Johnson, England, recently began a two-year residency in equine medicine in Veterinary Clinical Medicine.

INTERNATIONAL GRANT SUPPORT

March 15, 1984, is the application deadline for Office of International Programs and Studies grant support for international activities. Support will be available for (a) individual or joint faculty research activities with an international dimension or (b) conference programs (on-campus or abroad) having an international focus which are part of an on-going research program or which will lead to the publication of conference papers or proceedings. This grant program is unrestricted to academic discipline. Contact the Office of International Programs and Studies at 3014 Foreign Languages Building, 333-1990, for application requirements.

The College of Agriculture and the College of Veterinary Medicine welcome the following new foreign graduate students to the University of Illinois at Urbana-Champaign:

AGRICULTURAL ECONOMICS:

Mohammad Nawab Khan, Pakistan, farm management; *Oscar A. Nunez*, Honduras, agricultural finance; *Theophile Ranaivoarisoa*, Madagascar, rural community development; *Hector O. Zapata*, Honduras, quantitative and research methods.

AGRONOMY:

Eduardo Brun, Argentina, plant breeding; *Kazuo Torii*, Japan, soybean production.

DAIRY SCIENCE:

James W. Smith, Guyana, dairy management.

FAMILY AND CONSUMER ECONOMICS:

Shir Young, Korea.

FOODS AND NUTRITION:

Hanaa Hemeda, Egypt; *Nalini Ayya*, India; *Neelan Goel*, India.

HORTICULTURE:

George Freiji Fadi, Lebanon, vegetable production.

TEXTILES, APPAREL, AND INTERIOR DESIGN:

Sook Kuk, Korea, textiles and clothing.

VETERINARY MEDICINE:

Miranda El-Awar, Egypt, veterinary biosciences.

SEMINARS

February 1 Communications as Part of the Caribbean Agricultural Extension Project (CAEP-II) - John H. Behrens, Agricultural Communications.
4:00 p.m., 426 Mumford Hall.

February 8 Planning the NWFP Agricultural University in Peshawar, Pakistan - Roger G. Kallman, Skidmore, Owings, and Merrill, Architects, Chicago, Illinois.
4:00 p.m., 426 Mumford Hall.

February 15 Forestry Research in the Cloud Forests of Colombia - Jeffrey O. Dawson, Forestry.
4:00 p.m., 426 Mumford Hall.

February 22 Livestock Production in Ghana - Daniel B. Okai, Department of Animal Science, University of Science and Technology, Kumasi, Ghana.
4:00 p.m., 426 Mumford Hall.

February 29 Report on the World Bank/IDA Livestock Development and Marketing Study for the Ugandan Agricultural Rehabilitation Project - Mohamed E. Sarhan, Agricultural Economics.
4:00 p.m., 426 Mumford Hall.

March 7 An Entomologist's Search for Wild *Glycine* in Australia - Michael E. Irwin, Agricultural Entomology.
4:00 p.m., 426 Mumford Hall.

March 14 Spring Break, no seminar.

March 21 Language, Literacy, and Agricultural Development in Sub-Saharan Africa - Eyamba Bokamba, Linguistics and African Studies Program.
4:00 p.m., 426 Mumford Hall.

AGRICULTURAL RESEARCH POLICY SEMINAR

An Agricultural Research Policy Seminar will be held at the University of Minnesota from April 8 to 19, 1984. Module I, April 9 to 13, will focus on agricultural research policy issues of concern to both North American and international participants. Module II, April 13 to 19, will focus on issues that are of particular concern to international participants. For more information contact Dr. Fred Hoefer, Agricultural Extension Service, Office of Special Programs,

University of Minnesota, 1420 Eckles Avenue, St. Paul, MN 55108, USA, Telephone: (612) 373-0725, telex: TWX 298421.

FOREIGN VISITORS IN 1983

The Office of International Agriculture coordinated itineraries for 168 people from 24 countries during 1983. This number does not include the many visiting scientists who directly contacted faculty members in departments in the College of Agriculture.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign, 61801; Bonnie Irwin, editor. Faculty and Departments are encouraged to submit Newsletter items. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

International Agriculture Newsletter

College of Agriculture and College of Veterinary Medicine, University of Illinois at Urbana-Champaign
113 Mumford Hall, 1301 W. Gregory Drive, Urbana, IL 61801, USA. Telephone (217) 333-6420; Telex 206957

March 1984 No. 70

INTERNATIONAL ACTIVITIES

T. Albert Senwah finished his M.S. degree in Plant Pathology and returned to Liberia, where he will be a Teaching Assistant at the University of Liberia, Monrovia.

William N. Thompson, Office of International Agriculture, was appointed to the 1984 International Affairs Steering Committee of the National Association of State Universities and Land-Grant Colleges (NASULGC).

Stanley E. Curtis and Philip J. Dziuk, Animal Science, spoke on swine reproduction, ecology, and health at the Alberta Pork Seminar, Banff, Canada, January 18 to 20.

Barbara A. Yates, Comparative Education and Director of the Office of Women in International Development, served as rural sociologist on the design team of a USAID agricultural cropping systems project in Rwanda, January 21 through February 23.

Jean M. Due, Agricultural Economics, was one of 18 evaluators for the U.S. Agency for International Development/Board for International Food and Agriculture Development on the use of Title XII strengthening grants in land-grant universities, January 29 to 31.

On February 28 Dr. Due spoke on women in African development at the Institute of International Affairs, Bradley University, Peoria.

Munir Cheryan, Food Science, presented an invited lecture entitled "Membrane Applications in Food and Biotechnology" at the Association of Food Science and Technology, Bombay, India, January 19. Dr. Cheryan also visited the National Dairy Development Board, Anand, to discuss developments in dairy technology, and Bombay University Department of Chemical Technology to study developments in fermentation research.

Daniel Okai, visiting professor in Animal Science from the University of Science and Technology, Kumasi, Ghana, visited the University of Edmonton, Alberta, Canada, during the latter part of January to consult on procedures for evaluating tropical feed ingredients.

David H. Baker, Animal Science, recently served as a World Bank consultant on an agricultural development project in Hungary.

On March 13 Dr. Baker will lecture at the University of Guelph, Canada, on protein-amino acid nutrition and metabolism.

Thomas L. Frey, Agricultural Economics, was in Canada from January 28 to February 3. He made three presentations to the Farm Business Challenges' 1984 Conference, Vancouver, and led two workshop sessions on coordinated financial statements for agriculture at the Managing Farm Technology Seminar, Saskatoon, Saskatchewan.

John W. Santas, OIA, attended a workshop organized by Coverdale, Inc., to explain the short-term training they provide foreign students on management for development managers, February 1, Washington, D.C.

Chester B. Baker, Agricultural Economics, presented an invited paper at the annual meeting of the Australian Agricultural Economics Society, University of Sydney, February 5 to 11.

Jenny Kogan, Agricultural Entomology, was in Costa Rica from February 12 to 25 as information specialist on a project to strengthen regional and national capabilities in integrated pest management in Central America and Panama. The project was sponsored by USAID/ROCAP through a contract with the Consortium for International Crop Protection (CICP).

William N. Thompson and Thomas A. McCowen, OIA, were in Pakistan for two weeks during February to continue planning for the North West Frontier Province Agricultural University, Peshawar.

Dr. Thompson also made a presentation on staff orientation at the Title XII Workshop in Hawaii, February 27 to March 9.

Johannes M. J. de Wet, Agronomy, will discuss progress on cooperative research with scientists at the Centro Internacional de Mejoramiento de Maiz y Trigo, (CIMMYT), Mexico City, Mexico, March 11 to 14. The project uses exogenous DNA to transfer characters among maize breeds.

Robert A. Easter, Gilbert R. Hollis, and Louis Russell, Animal Science, will participate in the British Society of Animal Production meetings, Scarborough, England, March 26 to 28. Mr. Russell will present a paper entitled "An Evaluation of the Erythrocyte Glutamate Oxaloacetate Transaminase Activity Coefficient as a Biochemical Indicator of Vitamin B₆ Status in Ma-

ture Gilts," which is coauthored by Robert A. Easter and Peter J. Bechtel.

VISITING RESEARCHERS AND TRAINEES

Indra Kanwar, mycologist from Bangalore, India, is studying and conducting research with James B. Sinclair, Plant Pathology, on the histopathology of soybean seeds. Dr. Kanwar began work in January and will be at UIUC through August.

Ziming Chen, Institute of Soils and Fertilizer, Chinese Academy of Agricultural Sciences, Beijing, arrived at UIUC in September for one year's study in soil fertility with L. Touby Kurtz and Theodore R. Peck, Agronomy.

Ruzhen Chang, Institute of Crop Germplasm Research, Beijing, China, arrived in early January to spend one year with Richard L. Bernard, Agronomy, working on soybean germplasm.

VISITORS COMING TO CAMPUS

Lyuben Glogov, Director of the Soil Productivity Institute 'Pushkarev', Bulgaria, will discuss corn production techniques and corn physiology with Agronomy staff on March 22 and 23. Dr. Glogov will be accompanied by Dr. Christo Mermerski, Bulgarian Agricultural Counselor, Washington, D.C. The trip is sponsored by the Scientific and Technical Exchange Division of the Office of International Cooperation and Development (STC/OICD) of USDA.

E. Sgaravatti, Plant Production and Protection Division, FAO/Rome, will visit INTSOY and the College of Agriculture on March 28 and 29. John W. Santas, OIA, 113 Mumford Hall, 333-3638, is arranging his schedule.

Charles H. Antholt, AID/Washington Asia Bureau, will visit UIUC on April 18 and present the International Agriculture Wednesday seminar (see list).

Hari L. S. Tandon, European Nitrogen Service Program, New Delhi, India, will visit the Agronomy Department from April 18 to 21. Dr. Tandon received his Ph.D. degree from UIUC in 1968. His schedule is being arranged by Theodore R. Peck, N-121 Turner Hall, 333-4256, and by L. Touby Kurtz, 333-4377.

SEMINARS

March 7 Women's Contributions to the Farming Systems and Household Income in Zambia - Jean M. Due, Agricultural Economics.
noon, 1038 Foreign Languages Building.
(African Studies Program Lecture)

March 7 An Entomologist's Search for Wild Glycine in Australia - Michael E. Irwin, Agricultural Entomology.
4:00 p.m., 426 Mumford Hall.

March 21 Language, Literacy, and Agricultural Development in Sub-Saharan Africa - Eyamba Bokamba, Linguistics and African Studies Program.
4:00 p.m., 426 Mumford Hall.

March 28 Spanish Language Training for Agriculturalists - Bruce H. Mainous, UIUC Language Learning Laboratory.
4:00 p.m., 426 Mumford Hall.

April 4 Some Problems Facing Agricultural Development in the Sultanate of Oman - Thomas Gillard-Byers, Agricultural Economics.
4:00 p.m., 426 Mumford Hall.

April 11 Report on a Visit to Zambia - Earl D. Kellogg, Office of International Agriculture.
noon, 1038 Foreign Languages Building.
(African Studies Program Lecture)

April 11 When World's Collide: American and Western European Agricultural Policies - Susan E. Offutt, Agricultural Economics.
4:00 p.m., 426 Mumford Hall.

April 18 Agriculture in Bangladesh - Charles H. Antholt, Chief, Agriculture and Rural Development Office, Asia Bureau, U.S. Agency for International Development, Washington, D.C.
4:00 p.m., 426 Mumford Hall.

April 25 Zambia Agricultural Research and Extension Project (ZAMARE): An Executive Visit - Earl D. Kellogg and Carolyn M. Pribble, Office of International Agriculture.
4:00 p.m., 426 Mumford Hall.

VISITORS RECENTLY ON CAMPUS

Ram Sagi, Technion, Israel Institute of Technology, Haifa, met with Sidney L. Spahr, Dairy Science, Errol D. Rodda, Agricultural Engineering, and Hoyle B. Puckett, USDA/Agricultural Engineering, on January 28, to coordinate a joint research project on automation and electronics for dairy production.

Peter J. Burke, Chief Agricultural Reporter at Radio New Zealand, Wellington, visited UIUC on February 8 and 9. He discussed UIUC's B.S. degree program in Agricultural Communications with James F. Evans, and the College of Agriculture's radio and T.V. programming with Gary L. Beaumont, Agricultural Communications. Mr. Burke also met with WILL radio staff.

Edward P. Cunningham, Deputy Director of the Agricultural Institute of Ireland and Professor of Animal Genetics at Dublin University, visited UIUC on February 17. Dr. Cunningham discussed biotechnology research in animal science with W. Reginald Gomes, Dairy Science, and biotechnology research in plant sciences with Johannes M. J. de Wet and Theodore Hymowitz, Agronomy. He also met with Peter J. Bechtel and Daniel Gianola, Animal Science.

Gerard LaBonne, INRA, Montpellier, France, discussed aphid trapping and

transmission of plant diseases with Agricultural Entomology, Plant Pathology, and Illinois Natural History Survey staff, February 19 to 22.

Tian-ren Yu, Head, Soil Electrochemistry Division, Institute of Soil Science, Academia Sinica, Nanjing, China, visited the Agronomy Department from February 20 to March 2 and presented a series of lectures on the applications of electrochemical methods in soil and water research. Professor Yu was sponsored by the the Committee on Scholarly Communication with the People's Republic of China (CSCPRC).

INTSOY/CIAT AGREEMENT FINALIZED

The International Soybean Program (INTSOY) of the University of Illinois at Urbana-Champaign has signed a Memorandum of Agreement with the Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia. The memoran-

dum will facilitate cooperative agricultural research and the generation and delivery of agricultural technology to increase the production and quality of food commodities in the tropics. Harold E. Kauffman, INTSOY Director, 113 Mumford Hall, 333-6422, is campus liaison officer.

INDIA FELLOWSHIPS 1985-1986

June 15, 1984, is the application deadline for 1985-1986 Advanced Research Fellowships in India. There are no subject area restrictions, and people with limited or no experience in India are especially encouraged to apply. Applicants must be U.S. citizens at the post-doctoral or equivalent professional level.

Application forms and further information are available from CIES, Indo-American Fellowship Program, 11 Dupont Circle, Suite 300, Washington, D.C. 20036, (202) 833-4985.

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April 1984 No. 71

INTERNATIONAL ACTIVITIES

Ibulaimu Kakoma, Veterinary Pathobiology, visited the School of Medicine, Grenoble, France, February 8 to 18, and Gregg W. Clabaugh, Veterinary Pathobiology, visited the Institute Merieux, Lyon, France, February 10 to March 11, for collaborative research in malaria vaccine development.

Munir Cheryan, Food Science, presented a paper on the design of high-performance bioreactors for the production of fuel alcohol from agricultural and food processing wastes at the Eighth International Biotechnology Symposium, New Delhi, India, February 19 to 25. The paper was co-authored by Mohamed A. Mehaia, Food Science.

Wayne L. Banwart, Agronomy, was in Toronto, Canada, from February 20 to 29 to review the Canadian program on Long Range Transport of Air Pollutants (LR-TAP). The review was performed for the Royal Society of Canada.

Burton E. Swanson, Agricultural Education and INTERPAKS, participated in an author review session held February 22 and 23 at Cornell University for a USDA-sponsored book entitled "International Agricultural Research."

Richard H. Hageman, Agronomy, is in Be'er Sheva, Israel, March 15 to April 28 to work on nitrogen metabolism and on the use of nitrate to improve barley grown in saline water.

Mohamed E. Sarhan, Agricultural Economics, recently assumed a one-year marketing and international trade advisor assignment on a USAID/USDA project in Khartoum, Sudan. His address is: M. E. Sarhan (C), Khartoum, State Department (USAID), Washington, D.C., 20523.

Thomas A. McCowen, Office of International Agriculture, attended meetings of the AUSUDIAP (Association of U.S. University Directors of International Agricultural Programs) Executive Board and the Commission on International Agricultural Programs of NASULGC, Washington, D.C., March 19 and 20.

Sandra Brown, Forestry, presented a paper entitled "Watershed Problems and Experiences in the Tropics" at the Second Caribbean Foresters Workshop, St. Vincent, March 19 to 22.

Gary L. Beaumont, Agricultural Communications, is conducting two workshops on agricultural communications at the University of the West Indies, St. Augustine, Trinidad, March 20 to April 27. The workshops, part of the MUCIA Caribbean Agriculture Extension Project, are for extension personnel from seven Caribbean countries.

Luis H. Camacho, INTSOY plant breeder, Cali, Colombia, will be a consultant for FAO in Vietnam from April 16 to May 16. Dr. Camacho will advise on strengthening the soybean cultivar improvement program.

William N. Thompson, Office of International Agriculture, met with the NASULGC International Affairs Committee, Washington, D.C., on March 15. He also participated in discussions with AID/Washington, AID/Islamabad, and World Bank Personnel on the Pakistan Agricultural Education, Research and Extension Project.

Delbert T. Dahl, Agricultural Communications, Violet M. Malone, Extension Education, and J. B. Claar, INTERPAKS, will conduct three one-week workshops on the principles of effective extension work and appropriate instructional techniques. Organized by INTERPAKS (International Program for Agricultural Knowledge Systems), the workshops will be held in Zambia from March 23 through April 19 for provincial agricultural officers and for staff from the University of Zambia, the two Zambian Colleges of Agriculture, and the Natural Resources Development College.

Donald E. Kuhlman, Agricultural Entomology, and John K. Bouseman, Economic Entomology, will be in the Central Province, Zambia, during April to assist the Zambian Agricultural Research and Extension (ZAMARE) Project's adaptive research planning team. They will advise on insect control in soybeans, maize, and sunflowers; bionomics and systematics of insects; and development of extension training programs in entomology.

John W. Santas, Office of International Agriculture, will participate in the sixth (and final) seminar for recipients of the Kellogg Foundation/Partners of the Americas Fellowship in International Development, April 8 to 14, Washington, D.C. The seminar theme is future relationships, models, and policies.

Harold E. Kauffman, INTSOY, will participate in the seminar on "International Agricultural Research Centers and Biotechnology," April 23 to 27, at the International Rice Research Insti-

tute (IRRI), Los Banos, Philippines, and will also visit the Asian Vegetable Research and Development Center, Taiwan, to discuss continued collaboration in soybean microbiology.

Lowell D. Hill, Agricultural Economics, spoke at the annual convention of the Ontario Corn Producers Association, Toronto, Canada, March 26 to 28.

VISITING RESEARCHERS AND TRAINEES

Peter Ingliss, a cattle ranch manager from Echunga, Australia, is visiting the Animal Science Department and auditing classes in breeding, market animal selection, sheep production, and meat science. Mr. Ingliss was awarded this trip for winning the Australian National Angus Judging Contest.

Gu Xuan-Hong, Department of Agricultural Mechanization, Northeast Agricultural College, Harbin, China, is working with Donnell R. Hunt, Agricultural Engineering, on machinery operation and maintenance, and alternative fuels. Professor Gu, who will be at UIUC through 1984, can be contacted in Room 360-T Agricultural Engineering Sciences Building.

Mara V. Mikula, graduate student at the University of Sydney, Australia, is a visiting scholar in Agricultural Communications during 1984. Ms. Mikula is conducting a comparative study of Australian and U.S. agricultural publications.

Wang Peiyin, Soybean Research Institute, Heilongjiang Academy of Agricultural Sciences, Harbin, China, arrived March 13 to work for nine months with Randall L. Nelson, Agronomy, on soybean breeding. Ms. Wang is sponsored by FAO.

I. S. Bhandal, Assistant Professor of Botany, Punjab University, India, has a one-year postdoctoral fellowship from the government of India to work with Jack D. Paxton, Plant Pathology.

SEMINARS

April 4 Some Problems Facing Agricultural Development in the Sultanate of Oman - Thomas Gillard-Byers, Agricultural Economics.

4:00 p.m., 426 Mumford Hall.

(International Agriculture Seminar)

April 11 Report on a Visit to Zambia - Earl D. Kellogg, Office of International Agriculture.

noon, 1038 Foreign Languages Building
(African Studies Program Lecture)

April 11 When Worlds Collide: American and Western European Agricultural Policies - Susan E. Offutt, Agricultural Economics.

4:00 p.m., 426 Mumford Hall.

(International Agriculture Seminar)

April 12 Genetic Engineering: Promise and Problems in Crop Production - Peter R. Day, Director, Plant Breeding Institute, Cambridge, England.

7:30 p.m., Law Building Auditorium.

(L. J. Norton Lecture Series)

April 13 Biotechnology and the Developing Countries - Peter R. Day, Director, Plant Breeding Institute, Cambridge, England.

3:30 p.m., 426 Mumford Hall. Open coffee meeting at 3:00 p.m.

(L. J. Norton Lecture Series)

April 18 Farming Systems Research/Extension in Rwanda - Barbara A. Yates, Educational Policy Studies and Office of Women in International Development.

4:00 p.m., 426 Mumford Hall.

(International Agriculture Seminar)

April 19 Sulfur in Indian Agriculture - Hari L. S. Tandon, New Delhi, India.

2:00 p.m., N-221 Turner Hall.

(Agronomy Seminar)

April 20 Some Aspects of Fertilizer Efficiency Research in India - Hari L. S. Tandon, New Delhi, India.

11:00 a.m., N-221 Turner Hall.

(Agronomy Seminar)

April 25 Zambia Agricultural Research and Extension Project (ZAMARE): An Executive Visit - Earl D. Kellogg and Carolyn M. Pribble, Office of International Agriculture.

4:00 p.m., 426 Mumford Hall.

(International Agriculture Seminar)

May 2 Farming System Development in the Dominican Republic - David Willmot, Agronomy.

4:00 p.m., 426 Mumford Hall.

(International Agriculture Seminar)

VISITORS COMING TO CAMPUS

Hari L. S. Tandon, European Nitrogen Service Program, New Delhi, India, will visit the Agronomy Department from April 19 to 21 and present two seminars (see listing). To meet with Dr. Tandon contact Theodore R. Peck, N-121 Turner Hall, 333-9486, or L. Touby Kurtz, 333-4377.

Zhang Guo-dong, Vice Director of the Soybean Research Institute, and Wang Yumin, Heilongjiang Academy of Agricultural Sciences, Harbin, China, will visit UIUC during the first week of April as part of an FAO-funded project to strengthen soybean research. Their schedule is being arranged by John W. Santas, 113 Mumford Hall, 333-3638.

INTERPAKS FUNDING APPROVED

The International Program for Agricultural Knowledge Systems (INTERPAKS) was awarded a five-year, \$1.7 million research contract by the U.S. Agency for International Development. INTERPAKS will explore ways to organize and link agricultural research, education, and extension institutions to serve the needs of farmers in developing countries. Research team members include: J. B. Claar, Burton E. Swanson, and Earl D. Kellogg, Office of International Agriculture, and Sam H. Johnson, Andrew J. Sofranko, and Frederick C. Fliegel, Agricultural Economics.

ZAMARE PROJECT CONSULTANTS

Two short-term consultants on the Zambian Agricultural Research and Extension (ZAMARE) Project are: George P. Mullendore, Mississippi State University, who will be in Zambia during April to do a study on constraints to cotton production and marketing; and Walter J. Brown, Marketing Research Analyst for J. G. Boswell Co., Los Angeles, who is preparing a report on Zambia's relation to world market trends for cotton and cotton products.

INTERNATIONAL AGRICULTURE ADVISORY COMMITTEE

The International Agriculture Advisory Committee met at UIUC on March 27 and 28. Committee members are: Richard J. Feltes, Continental Grain Co., Chicago; William H. Fugate, farmer, Fairbury; Lyle G. Reeser, East Peoria; Willard Severns, farmer, Moweaqua; James M. Spata, food scientist, Montgomery, Ohio; and Wilbert N. Stevenson, farmer, Streator.

ICLAS CALL FOR PAPERS

May 7 is the deadline for proposals to present papers or organize panels for the Eighth Annual Meeting of the Illinois Conference of Latin Americanists. The meeting, which will be held at the University of Illinois at Chicago from November 15 to 17, will focus on migration to, from, and within Latin America and the Caribbean.

Send a one-page abstract of the proposed presentation, your current address and telephone number, and a one-paragraph resume to: UIC ICLAS Meeting Committee, c/o Professor Otto Pikaza, Director, Latin American Studies, 1401 University Hall, Box 4348, Chicago, IL 60680, or call Latin American Studies at (312) 996-2445.

NSF GRANTS

September 1 is the deadline for grant applications to the Science in Developing Countries Program of the National Science Foundation. Proposals should advance the international exchange of scientific knowledge and contribute to the scientific infrastructure of developing countries. For specific guidelines contact the Central Processing Section, National Science Foundation, Washington, D.C. 20550.

TITLE VI FELLOWSHIPS FOR LATIN AMERICAN LANGUAGE AND AREA STUDIES

April 6 is the application deadline for Title VI Latin American Language and Area Studies Fellowships. Applicants must be UIUC graduate students and U.S. citizens. For more information contact the Center for Latin American and Caribbean Studies, 1208 West California Street, Room 250, 333-3182.

FULBRIGHT AWARDS UPDATE

Applications are still being accepted for the following 1984-1985 Fulbright Scholar Awards:

Egypt - animal/plant/soil sciences

Greece - vocational agriculture, development training methods

Morocco - any specialization in agriculture

Sierra Leone - agronomy, agricultural engineering

Turkey - plant sciences

Zimbabwe - animal production

Additional awards listed under biological sciences, chemistry, ecology and environment, economics, education, sociology, and social work may also be of interest to agriculture and veterinary medicine faculty.

CIES, 11 Dupont Circle, Suite 300, Washington, D.C. 20036, (202) 833-4950.

VISITORS RECENTLY ON CAMPUS

Maryevonne Cagnard, Institute Merieux, and Jacques Thelu, School of Medicine, Grenoble, France, visited Veterinary Biosciences from February 21 to March 2 for collaborative research on malaria vaccine development.

Ji Lin Liu, Huazhong Agricultural College, Wuhan, China, visited the Maize Genetics Group in Agronomy from March 12 to 14.

Mohammad Karim, NWFP Agricultural University, Peshawar, Pakistan, and currently at SIU-Carbondale for post-masters study, discussed forage production with Kenneth J. Moore and Don W. Graffis, Agronomy; genetic improvement and production of maize with D. E. Alexander, Agronomy; soybean production with Joseph A. Jackobs and Dan R. Erickson, Agronomy; and UIUC's wheat breeding program with Henryk Jedlinski, Plant Pathology, March 13.

Ibrahim Mohamed, Vice President for Administrative and Student Affairs, Tishriin University, Lattakia, Syria, visited UIUC on March 12. He met with Upson S. Garrigus, Donald E. Becker, Richard M. Forbes, Larry L. Berger, Neal R. Merchen, and George C. Fahey, Animal Science; John W. Santas, Office of International Agriculture; Robert E. Brown, Overseas Projects and Foreign Visitors; Theodore L. Brown, Vice Chancellor for Research; and Sammy J. Rebecca, Assistant Vice Chancellor for Administrative Affairs.

Eric Kueneman, Head of the Soybean Improvement Program at the International Institute of Tropical Agriculture, Ibadan, Nigeria, discussed collaborative programs on soybean cultivar testing and utilization with INTSOY staff, March 27 to 31.

Peter Dorner, University of Wisconsin MUCIA campus coordinator, and Terance Bigalke, MUCIA Assistant Director, visited UIUC on March 1 to discuss staffing needs for the MUCIA Indonesian World Bank IX Education Project.

Chin-Hsien Chiu, Taiwan Livestock Research Institute, discussed biogas production and utilization on large swine farms with limited crop land with Donald L. Day and others in Agricultural Engineering, March 13 through 19.

INT. AGR. CONSULTANTS ROSTER

The International Training Division of the Office of International Cooperation and Development, U.S. Department of Agriculture, maintains a roster of people interested in teaching agriculture courses in the U.S. and overseas. The courses are from two- to twelve-months long and cover the physical, biological, and social sciences aspects of agriculture as well as program management.

For additional information contact USDA OICD/ITD, Room 3541 South Building, Washington, D.C. 20250, attn. Lynne M. Teitelbaum; telephone (202) 447-7881.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign, 61801; Bonnie Irwin, editor. Faculty and Departments are encouraged to submit Newsletter items. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

The Zambia Agricultural Research and Extension (ZAMARE) Project strives to help the Government of the Republic of Zambia in its efforts to improve the welfare of small-scale farmers and increase national food production through the development and adaptation of relevant technology. An important aspect of the ZAMARE Project involves the upgrading of professional and technical skills within the Ministry of Agriculture and Water Development through advanced academic and practical training.



Pictured here with John R. Campbell, Dean of the College of Agriculture, Earl D. Kellogg, Associate Director of the Office of International Agriculture, and John W. Santas, International Agricultural Training, are: (back row, left to right) Ben Zimba and Enoch K. Sikapande; (front row) Agnes R. Kasaro, George Simakando, Edward M. Sakufiwa, and Merinas N. Nyendwa. Of the 24 ZAMARE trainees currently studying in ten U.S. universities, these six are enrolled at UIUC.

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College of Agriculture and College of Veterinary Medicine, University of Illinois at Urbana-Champaign
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May 1984 No. 72

INTERNATIONAL ACTIVITIES

Roy K. Simons, Horticulture, attended the International Dwarf Fruit Tree Association annual meetings, March 3 to 7, Grand Rapids, Michigan.

Henry H. Hadley, Agronomy, planted broom corn nurseries in Torreon and Hermosillo, Mexico, March 19 to 23, as part of a project supported by the Broom and Mop Division of the American Brush Manufacturers Association.

David H. Baker, Animal Science, lectured on protein and amino acid nutrition and metabolism at the University of Guelph, Ontario, Canada, March 13 to 16. On April 3 Dr. Baker addressed the Canadian Feed Manufacturers Association on the use of crystalline lysine in low protein diets.

Two UIUC faculty participated in the National Institute of Agricultural Engineers meeting at Cambridge University, England, April 1 to 5: Sidney L. Spahr, Dairy Science, presented a poster display on collection and analysis of milk production and conductivity data in real time; and Marvin R. Paulsen, Agricultural Engineering, presented a paper. Dr. Paulsen also visited the Federal Research Institute of Cereal and Potato Processing at Detmold, West Germany.

Burton E. Swanson, Agricultural Education and INTERPAKS, was elected Chairperson of the newly established Asso-

ciation of International Agricultural Education during the founding meeting in Washington, D.C., on April 6. The objective of the Association is to strengthen agricultural education as part of development programs in developing countries.

Margo De Ley, Office of Women in International Development, was a consultant to Southern Illinois University at Carbondale's Office of International Education, April 10 and 11. Dr. De Ley spoke at workshops planned to sensitize faculty and administrators to issues related to women in international development.

Thomas A. McCowen, Office of International Agriculture, left April 16 for four weeks in Pakistan to continue work on the Pakistan Agricultural Education, Research, and Extension Project.

John W. Santas, Office of International Agriculture, was in Pakistan the last two weeks of April to interview staff members of the Northwest Frontier Province Agricultural University, Peshawar, who were nominated for training in the U.S. under sponsorship of the Pakistan Agricultural Education, Research and Extension Project.

Dr. Santas will be in Colombo, Sri Lanka, May 5 to 8, to help plan the Soybean Utilization Workshop for Asia, scheduled for January 1985 in Peradeniya. The workshop will be sponsored by the Sri Lanka Soybean Project and

INTSOY in collaboration with UNDP, USAID, UNICEF, and CARE.

Barbara A. Yates, Comparative Education and Office of Women in International Development, will participate in a workshop on the Rwanda Farming Systems Project, University of Arkansas, Fayetteville, May 8 and 9.

James B. Sinclair, Plant Pathology, will give an invitational paper entitled "Opportunities to Study Diseases Overseas that Are of Concern to the U.S." at a workshop on exotic diseases sponsored by the USDA Plant Disease Research Laboratory, Frederick, Maryland, May 8 and 9.

Richard E. Ford, Plant Pathology, will lead a delegation of plant pathologists and entomologists to China, May 8 to 28. The trip is organized by the Citizen Ambassador Program of People-to-People International.

Joseph A. Jackobs, Agronomy, will be in Antalya, Turkey, May 9 to 18, to assist in a training course on soybean production.

Dr. Jackobs will then travel to Khartoum, Sudan, to serve as a consultant on soybean production to the Arab Authority on Agricultural Investment Development.

Sam H. Johnson, Agricultural Economics, will present a paper entitled "Impact of Sedimentation on Income from Fishing Activities: Nam Pong Basin, Northeast Thailand" at the Workshop on Management of River and Reservoir Sedimentation in Asian Countries. The Workshop will be held at the East-West Center, Honolulu, May 14 to 19.

Lowell D. Hill, the L. J. Norton Professor of Agricultural Marketing, was selected as a Fellow in the Third Development Seminar of the Institute of European Studies, Freiburg, West Germany, June 4 to 20. Twenty participants from U.S. universities and industry, and executives from European

firms will study and discuss microeconomic impact of the European Community. The program will include visits to EC institutions in Germany, Luxembourg, Belgium, and France.

Dr. Hill will be in Tokyo, Japan, from May 3 to 20 to develop export markets and marketing procedures for higher quality corn.

Scott Jeckel, a senior in Agricultural Economics, will live with a family in England for four months this summer while working on a commercial farm operation. This trip was arranged through the Ohio State University International Intern Program.

VISITING RESEARCHERS AND TRAINEES

Two FAO-sponsored scholars arrived at UIUC in April: Rajinder Nanda, Indian Agriculture Research Institute, New Delhi, is working with Joseph T. Woolley, Agronomy, on plant physiology; and He Zhihong, Soybean Research Institute, Heilongjiang Academy of Agricultural Sciences, China, has a nine-month fellowship to work with Henry H. Hadley, Agronomy, on soybean genetics and breeding.

Li Shaoshi, Diseases and Insect Pests of Crops Forecasting Station, Changsha, China, arrived in March for a one-year program with William G. Rue-sink, Agricultural Entomology, on modeling and forecasting of insect pests.

Yang Jiu-sheing, Department of Botany, National Chung-Hsing University, Taiwan, is working with Jack M. Widholm, Agronomy, on protoplast fusion and soybean cell pathogen interactions. Dr. Yang will be here through August.

VISITORS RECENTLY ON CAMPUS

Toyohiko Yoshihara, a veterinarian with the Japan Racing Association, visited Miodrag Ristic, Veterinary Pathobiology, on April 5 and 6 to

discuss research on the control of equine hemotropic diseases.

Lyuben Glogov, N. Poushkarov Research Institute, Sofia, Bulgaria, and Chris-to Mermerski, Agricultural Attache, Embassy of Bulgaria, Washington, D.C., discussed corn physiology, metabolism, and agroecological considerations with Frederick E. Below and John J. Hes-keth, Agronomy; tillage practices and farm structures with John C. Siemens and Arthur J. Muehling, Agricultural Engineering; and toured the swine progeny testing unit with Leif H. Thompson, Animal Science, April 6.

Masato Suzuki, Japanese Institute of Agricultural Mechanization, Omiya, discussed research on grain harvesting and instrumentation with Donnell R. Hunt and John W. Hummel, Agricultural Engineering, April 9 through 11.

Ademir Henning, seed pathologist at the National Soybean Research Center (EMBRAPA/CNPSoja), Londrina, Brazil, visited UIUC from April 9 to 11. Dr. Henning presented a seminar and met with James B. Sinclair, C. Machado, and J. Bowman, Plant Pathology, William N. Thompson, Office of International Agriculture, Joseph A. Jackobs and Richard L. Bernard, Agronomy, and Marcos Kogan, Agricultural Entomology.

Walter J. Brown, Marketing Research Analyst for J. G. Boswell Co., Los Angeles, visited UIUC in mid-April to complete an analysis of world cotton market trends for the ZAMARE project.

The USAID Steering Committee for the INTERPAKS Research Project met with INTERPAKS faculty on April 26 and 27. The steering committee members are: Marshall Godwin and Phil Church, Office of Agriculture, Don Anderson, Office of Multisectional Development, and Douglas Caton, consultant to AID.

E. Sgaravatti, Seed and Plant Material Exchange Officer, FAO, Rome, Italy, discussed soybean and maize breeding

activities with College of Agriculture faculty on March 28 and 29. Dr. Sgaravatti met with D. E. Alexander, Richard L. Bernard, Randall L. Nelson, Gerald L. Ross, Danny R. Erickson, Charles A. Smyth, and Joseph A. Jackobs, Agronomy, William L. George, Horticulture, and Harold E. Kauffman, INTSOY. He also visited Illinois Foundation Seeds.

Seaton Baxter, Head of the School of Surveying and Construction Engineering, Robert Gordon Institute of Technology, Aberdeen, Scotland, spent March 29 to April 2 at UIUC. He met with Arthur J. Muehling of Agricultural Engineering and Stanley E. Curtis, Animal Science.

Eliakim Kaaya, Financial Director, National Agriculture and Food Corporation, Tanzania, visited UIUC from April 1 through 4 for a program arranged by the Office of International Programs and Studies. Mr. Kaaya met with Delmar F. Wilken, Jean M. Due, Allan G. Mueller, and Kathryn A. Maybury, Agricultural Economics, and John W. Santas, OIA.

Eight representatives of the Spanish feed industry spent April 3 in a seminar given by Animal Science faculty. The seminar covered state-of-the-art information on nutrition and breeding of swine and poultry, and information dissemination to the livestock industry. Elanco Products Company sponsored the group.

NEW ZAMARE SUNFLOWER AGRONOMIST

Val Jon Eylands will join the Zambia Agriculture Research and Extension project in May as the sunflower agronomist. He replaces William W. Roath, who was on loan to the ZAMARE project for two years from North Dakota State University/USDA, Fargo. Dr. and Mrs. Eylands will visit UIUC in mid-May before traveling to Mt. Makulu Central Research Station.

SEMINARS

May 2 Farming System Development in the Dominican Republic - David Willmot, Agronomy.

4:00 p.m., 426 Mumford Hall.

(International Agriculture Seminar)

May 21 Erosion and Soil Fertility - Michael Stocking, University of East Anglia, Norwich, England.

1:00 p.m., 204 Agr. Eng. Sci. Bldg.

(Agricultural Engineering Seminar)

VISITORS COMING TO CAMPUS

Michael Stocking, University of East Anglia, Norwich, England, will visit UIUC on May 21 and 22, and present a seminar (see listing above). Dr. Stocking has extensive experience in Africa, especially Zimbabwe, and South America. His schedule is being arranged by J. Kent Mitchell, 332-P Agr. Eng. Sci. Bldg., 333-4913.

Yang Feng, President, and Li Shifen, Associate Professor of Rice Breeding, Sichuan Agricultural College, China, will visit UIUC from May 8 to 18 sponsored by the China Education Exchange Program. Their visit is being arranged by Harold E. Kauffman, 113 Mumford Hall, 333-6422.

Clifton Wharton, President of the State University of New York and international agricultural development specialist, will be awarded an honorary degree by the University of Illinois on May 13.

WORKSHOP FOR INTERNATIONAL WOMEN

"Homeward Bound: International Women Prepare Themselves" is the theme of a Development Workshop for International Women which will be held May 12 in Room 209 Illini Union. Contact Margo De Ley or Romy Borooah, WID Office, 3022 Foreign Languages Bldg., 333-1977, for further information.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign, 61801; Bonnie Irwin, editor. Faculty and Departments are encouraged to submit Newsletter items. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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International Agriculture Newsletter

JUN 08 1984

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June 1984 No. 73

INTERNATIONAL ACTIVITIES

Dean John R. Campbell, College of Agriculture, and Dean Joe R. Burnett and Hercules C. Kazanas, College of Education, visited Jamaica for four days in mid-April. They discussed the possible development of agricultural education programs between UIUC and the College of Agriculture, Jamaica. They also met with representatives of the U.S. Embassy, the USAID mission to Jamaica, the Ministry of Youth and Community Development, the Human Employment and Resource Training (H.E.A.R.T.) Trust, and Agro-21, a private agricultural enterprise.

Errol D. Rodda, Agricultural Engineering, will be at the USAID mission in New Delhi, India, for two months, where he will help plan projects for the processing and use of soybeans, and processing and storage of fruits and vegetables.

Miodrag Ristic and Mark A. James, Veterinary Pathobiology, visited the Institute Merieux in Lyon, France, and the Serum Institute in Copenhagen, Denmark, regarding joint research on malaria. They also traveled to The Hague, Netherlands, to meet with the publishers of the proceedings of the Second International Conference on Malaria and Babesiosis, which was held in France last year.

Gilbert R. Hollis, Animal Science, presented seminars in Mexico, Hondu-

ras, Guatemala, and Costa Rica for the American Soybean Association in cooperation with USDA, April 30 to May 4.

Wayne L. Banwart, Agronomy, presented a poster and chaired a session on differential cultivar responses to air pollution at the XVI Air Pollution Workshop, Banff, Alberta, Canada, April 30 to May 4.

Stanley E. Curtis, Animal Science, spoke at the International Minerals Symposium on Stress, May 3 to 7, Puerto Vallarta, Mexico.

Earl D. Kellogg, Office of International Agriculture, discussed World Food Day activities with FAO and USAID personnel, Washington, D.C., May 7-9.

Dr. Kellogg will present an invited lecture entitled "Internationalizing the Agriculture Curriculum" at the annual conference of the National Association of Colleges and Teachers of Agriculture, Washington State University, Pullman, June 19.

Andrew J. Sofranko, Agricultural Economics, and Russell T. Odell, Agronomy, were members of an evaluation team for the MUCIA project at the Institute of Agriculture and Animal Science (IAAS), Rampur, Nepal, from May 10-30.

Jean M. Due, Agricultural Economics, discussed farming systems research and on-farm trials with agricultural economists at CIAT (Centro Internacional de Agricultura Tropical), May 12-19,

Cali, Colombia. Dr. Due was accompanied by Jeremiah Rugambisa, a graduate student in Agricultural Economics from Tanzania.

Davis L. Thomas and Leif H. Thompson, Animal Science, were in Bulgaria from May 12 to 23 as part of a cooperative Bulgarian Government/UIUC sheep research project.

Michael E. Irwin, Agricultural Entomology, will be in South America from May 21 to June 15 as a consultant for CIGP (Consortium for International Crop Protection). He will develop an integrated crop protection plan for Ecuador and expand an integrated crop protection plan for Peru.

Dr. Irwin will also visit the Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia, to meet with INTSOY plant breeder Luis H. Camacho.

William N. Thompson, Office of International Agriculture, spent two weeks in Pakistan during May working on the USAID project at the Northwest Frontier Province Agricultural University, (NWFP-AU), Peshawar.

Jane S. Johnson, INTERPAKS, is in Pakistan to assist in the development and expansion of the library at the NWFP-AU, May 23 to June 3. Ms. Johnson will also examine the computerized information system and the library collection at the Agricultural Extension and Rural Development Centre at the University of Reading, England, June 4 and 5.

Gary L. Johnson, Agricultural Economics and Institute for Environmental Studies, is currently in Pakistan to design the computer system for the NWFP-AU. Dr. Johnson will also travel to Thailand to discuss computer training for NWFP-AU faculty at the Asian Institute of Technology.

David H. Baker, Animal Science, is in Budapest, Hungary, to study animal production systems, feed milling operations, and rendering plants as part

of a World Bank development project, May 30 to June 16.

Carolyn M. Pribble, Earl D. Kellogg, Thomas A. McCowen, and William N. Thompson, Office of International Agriculture, will participate in the 20th AUSUDIAP (Association of United States University Directors of International Agricultural Programs) Meeting, Washington State University, Pullman, June 26 to 28. The theme of the program is "Implementing Technical Assistance Projects."

John E. Bowman, recent Ph.D. in Plant Pathology, has accepted a postdoctoral fellowship in the wheat program at CIMMYT (Centro Internacional de Mejoramiento de Maiz y Trigo), El Batan, Mexico, beginning in July.

Marcia White, Ph.D. student in Agricultural Economics, will be in St. Lucia, Barbados, and Antigua from May through February 1985 to collect data for her Ph.D. thesis entitled "Alternative Paths to Economic Development in the Eastern Caribbean Islands."

Jean M. Baker, junior in Agricultural Communications, will study rural journalism at the Western Australian Institute of Technology (W.A.I.T.), Perth, from July through December.

Participating in the International 4-H Youth Exchange (I.F.Y.E.) are: Robert F. Owens, Vermilion County Assistant Agricultural Extension Agent, in Sweden from April through October; Peter J. Irwin, junior in Agricultural Economics from Sangamon County, in Germany from June through December; Debra D. Sarver, junior in Retailing from Macon County, in Italy from June through December; and Kimberly D. Smith, junior in Agricultural Communications from Wayne County, in Norway from June through December.

Lowell D. Hill, Agricultural Economics, received a research grant from Exxon Corporation and the Institute

for European Studies (IES) to study and compare the methods used by European markets to measure grain moisture.

NEW CAMPUS MUCIA OFFICER

T. John Kim, Urban and Regional Planning and Civil Engineering, is the new MUCIA Liaison Officer and Associate Director of the Office of International Programs and Studies (OIPS). Since its inception in 1964, the Midwest Universities Consortium for International Activities (MUCIA) has supported work in more than 100 countries, primarily in developing areas. Currently the University of Illinois is lead university in three MUCIA projects: Bangladesh Business Management, Education, and Training Project; Indonesia Accountancy Education Training Project; and Indonesia Technical Assistance for the University of North Sumatra. Contact Dr. Kim at 3010 Foreign Languages Bldg., 333-1993, for more information about MUCIA projects.

VISITING RESEARCHERS AND TRAINEES

Heriberto Rodriguez, Department of Histology and Embryology, College of Medicine, Montevideo, Uruguay, has recently started his term as a George A. Miller Fellow in Veterinary Clinical Medicine. Dr. Rodriguez will develop a project on uterine motility in the postpartum cow and dog. His fellowship is cosponsored by the Departments of Veterinary Clinical Medicine and Veterinary Biosciences.

J. D. S. Panwar, Indian Agricultural Research Institute, New Delhi, arrived at UIUC in mid-May for a four-month postdoctoral research position with James E. Harper, USDA/Agronomy. Dr. Panwar will study soybean plants to evaluate the effect of source-sink manipulations on nutrient mobilization and senescence, and work on a hydroponic study involving the use of ^{15}N

as a stable isotope tracer on N remobilization within soybeans. He is supported by an FAO fellowship.

Benoit Cote, a doctoral candidate at Laval University, Quebec, Canada, arrived at UIUC in May for a six-month project on symbiotic nitrogen fixation and nitrogen cycling in forests and tree plantations. Mr. Cote is working in the laboratory of Jeffrey O. Dawson, Forestry.

Hamdani Nasution, Institut Pertanian Bogor, Indonesia, will spend May 28 to June 6 working with faculty in Agricultural Communications. This visit is part of a six-week U.S. study program in rural communications sponsored by the University of Wisconsin's Indonesia project. Dr. Nasution received his Ph.D. in Animal Science from UIUC in 1983.

VISITORS RECENTLY ON CAMPUS

John G. Bruce, regional pedologist, New Zealand Soil Bureau, discussed loess distribution and loess soils in New Zealand and the U.S. with Joe B. Fehrenbacher, Ivan J. Jansen, and others of the Agronomy pedology staff, April 8 to 10.

Maude Knuttson, Sweden, discussed current research with faculty in the Nutrition Division of Dairy Science on April 13.

Nathalie Laurent, Institute Merieux, Lyon, France, visited the laboratories of Miodrag Ristic, Veterinary Pathobiology, April 16 to 20, to learn techniques for Babesia bovis research. The Institute Merieux and Veterinary Medicine are collaborating on several research projects.

Yang Feng, President and professor of animal science, and Li Shifen, professor of agronomy, Sichuan Agricultural College, Yaan, China, visited UIUC May 9 through 11. They met with Dean John

R. Campbell, Harold E. Kauffman, INT-SOY, Benjamin A. Jones, Agricultural Experiment Station, William R. Oschwald, Cooperative Extension Service, William L. George, Resident Instruction, Earl D. Kellogg, OIA, Upson S. Garrigus and Aldon H. Jensen, Animal Science, and Loyd M. Wax, L. Frederick Welsh, Emerson D. Nafziger, and Jack M. Widholm, Agronomy. They also toured the Agronomy-Plant Pathology South Farm, the Animal Research Farm, and Moorman Farms.

Leen Davidse, Agricultural University, Wageningen, Netherlands, presented a seminar on the biochemical mechanism of action of acylalanine fungicides and met with Jack D. Paxton, Plant Pathology, May 17 and 18.

Ngalisame M. Bieme, General Manager of the Cooperative de Plateau de Bateke (COPLABAT), Kinshasa, Zaire, visited UIUC on May 15 and 16 sponsored by an Eisenhower Exchange Fellowship. Mr. Bieme discussed corn and soybean production with M. M. Pyndji, Plant Pathology, and D. E. Alexander, Danny R. Erickson, Marshall D. McGlamery, and Emerson Nafziger, Agronomy.

Felix Manuel Cirio, advisor to the Minister of Agriculture, Argentina, visited UIUC from May 16 to 19 as part of a 30-day U.S. tour sponsored by the U.S. Information Agency. Mr. Cirio discussed farm management and extension with Royce A. Hinton, Philip Garcia, Richard P. Kesler, and Earl R. Swanson, Agricultural Economics, and William R. Oschwald, Cooperative Extension Service. He also visited the Eric Rund farm in Pesotum and Ken-o-Kaw Farms in Sullivan.

H. deWet and Alan Penderis, National Cooperative Dairies, South Africa, discussed computer application on dairy farms with Dairy Science faculty, May 18.

J. Raymond Carpenter, Deputy Chief, Agriculture and Rural Development,

USAID/Pakistan, visited UIUC from May 22 to 25. He met with College of Agriculture staff to assist in preimplementation activities on the Northwest Frontier Province Agricultural University project.

VISITORS COMING TO CAMPUS

The ZAMARE (Zambia Agricultural Research and Extension) project administrative working group, comprised of representatives from UIUC, University of Maryland-Eastern Shore, Southern Illinois University at Carbondale, and the University of Hawaii, will meet at UIUC on June 4 and 5.

D. V. Singh, Department of Agronomy and Soils, Central Institute of Medicinal and Aromatic Plants, Council of Scientific and Industrial Research (CSIR), Lucknow, India, will visit UIUC from June 5 to 8 to confer with soil scientists in Agronomy and Horticulture. He will present a seminar on June 5 at 1:15 p.m. in W-115 Turner Hall entitled "Development of Technology for Medicinal and Aromatic Plants." Dr. Singh is sponsored by the CSIR-NSF scientific exchange program. Theodore R. Peck, Agronomy, N-121 Turner Hall, 333-9486, is arranging his schedule.

Vojin Anastasijevic, Livestock Research Institute, Beograd, Yugoslavia, will visit the Animal Science Department from July 1 to 15, sponsored by USDA/OICD. Upson S. Garrigus, 328 Mumford Hall, 333-0124, is arranging his schedule.

Upcoming visitors to Dairy Science include: Juha Siik, Manager of the farmer's cooperative Hankkija, Oulu, Finland, to view the use of microcomputers and the computer services available to farmers, June 12 and 13;

S. Hoekstra and G. v. d. Waay, Stichting Koppeling Melkcontrole-Veevoeding; N. Benedictus, National Government Advisory Officer; S. de

Jong, dairy specialist; and G. Wissinkand and A. Ensing, forage laboratory directors, Netherlands, to review least-cost dairy rations and dairy feeding technology, July 5.

Details of their schedules are available from Michael F. Hutjens, 315 Animal Sciences Laboratory, 333-2928.

INTERNATIONAL CONGRESS AT UIUC

The Tenth International Congress on Animal Reproduction and Artificial Insemination will be held at UIUC from June 10 to 14. More than 1,000 scientists from 50 countries are expected to attend. William C. Wagner, Veterinary Biosciences, is general secretary for the congress and Glenn W. Salisbury, professor emeritus of Dairy Science and former Director of the Agricultural Experiment Station, will preside over the congress. The local organizing committee includes Borje Gustafsson and Gary Johnson, Veterinary Medicine, and Philip J. Dziuk, W. Reginald Gomes, and Charles N. Graves from the College of Agriculture. The congress offers nearly 30 hours of continuing education credit for registrants. Additional information can be obtained from Dr. Wagner, 3526 Veterinary Medicine Basic Sciences Bldg., 2001 S. Lincoln Ave., Urbana, IL 61801; telephone (217) 333-2506.

IICA AGREEMENT SIGNED

The University of Illinois recently signed a General Agreement for Technical Cooperation with the Inter-American Institute for Cooperation on Agriculture (IICA). The Agreement provides for the International Soybean Program (INTSOY) to participate in technical exchange and cooperative activities to develop and use soybeans in IICA's 29 member countries. Harold E. Kauffman, INTSOY Director, 113 Mumford Hall, 333-6422, is campus liaison officer.

SCHOLAR-IN-RESIDENCE PROGRAM

November 1, 1984, is the deadline for receipt of proposals for the 1985-1986 Fulbright Scholar-in-Residence program. Through this program, a scholar from abroad can lecture for one year at a U.S. academic institution. Additional information and proposal forms may be obtained from the Council for International Exchange of Scholars, 11 Dupont Circle, N.W., Washington, D.C., 20036.

FULBRIGHT SCHOLAR PROGRAM 1985-1986

June 15 is the deadline for applications for Australasia, India, Latin America and the Caribbean; and September 15 is the deadline for Africa, Asia, Europe, and the Middle East.

Awards in agriculture and related biological sciences include:

Austria - microbiology
Bangladesh - rural development
Brazil - agricultural economics
Cameroon - microbiology
Denmark - membrane physiology
France - microbiological engineering
India - rural management, botany
Ireland - botany
Jamaica - aquaculture
Malawi - plant pathology
Malaysia - vocational education
Morocco - applied sciences
New Zealand - rural sociology
Portugal - rural development
Romania - agronomy
Rwanda - all subfields of sociology
Sierra Leone - agronomy
Turkey - horticulture, viniculture, food processing and technology
Yugoslavia - wheat breeding
Zambia - agricultural engineering
Zimbabwe - crop production, soil science or physics, veterinary med.

More than 400 additional awards in 38 countries are not restricted by discipline.

In addition, Bahrain, India, Romania, Sudan, Syria, Turkey, Yugoslavia,

and the USSR will accept any specialization in the biological sciences.

Prospective applicants should consult the Fulbright booklet and contact the Program Officer at CIES before submitting an application. Information booklets are available from the Fellowship Office, 107 Coble Hall, 333-0036, and Bonnie Irwin, OIA, 113 Mumford Hall, 333-0264.

INTSOY SOYBEAN PROCESSING COURSE

The seven-week INTSOY short course, "Soybean Processing for Food Uses," began on May 14 with 10 participants: Ileana Granados, CARE, Costa Rica; Eleanor Lungu Muzyamba, Provincial Home Economics Officer, Lusaka, Zambia; Scholastica Mabuya, Zambia College of Agriculture, Monze; Akmal Khan, National Agricultural Research Centre, Islamabad, Pakistan; Balint Czukor, Central Food Research Insti-

tute, Budapest, Hungary; Khanyisile F. Mabuza, Ministry of Agriculture, Mbabane, Swaziland; Dulce Maria Munoz-Perez, Mexico; Guillermo Reyes V., PRESA S. A., Panama; Eduardo I. Molina, Mexico; and Kyong-soo Hwang, Korea. Conducted by L. S. Wei, this is the eighth time the course has been held at UIUC.

SEMINARS

June 5 Development of Technology for Medicinal and Aromatic Plants - D. V. Singh, Central Institute of Medicinal and Aromatic Plants, Lucknow, India.
1:15 p.m., W-115 Turner Hall.
(Agronomy lecture)

July 13 Politics vs. Technology in World Hunger - Norman Borlaug, 1970 Nobel Peace Prize winner.
3:00 p.m., 426 Mumford Hall.
(L. J. Norton Seminar)

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July 1984 No. 74

INTERNATIONAL ACTIVITIES

Jean M. Due, Agricultural Economics, will serve for three years on the Discipline Screening Committee for Fulbright scholar awards in economics. The committee evaluates all applications in economics and agricultural economics for U.S. and overseas awards.

Vickie A. Sigman, recent Ph.D. in Agricultural Education, will work with international and domestic programs as Assistant Specialist in Agricultural Development and Communications, College of Tropical Agriculture and Human Resources, University of Hawaii.

Thomas Gillard-Byers, recent Ph.D. in Agricultural Economics, has accepted a position on the Western Sudan Agricultural Research Project, Kadugli Research Station, Kordofan. This Washington State University project is funded by USAID through the Consortium for International Development (CID).

Robert H. Beck, Agronomy, and Deirdre Birmingham, graduate student in Agronomy, visited the International Fertilizer Development Center (IFDC) in Muscle Shoals, Alabama, on March 12 and 13. Ms. Birmingham presented a seminar based on her M.S. thesis entitled "An Evaluation of the Phosphorus Status of Some West African Soils." IFDC helped sponsor her collection of soils in Nigeria and Niger.

Alvin L. Neumann, Animal Science professor emeritus, consulted with sheep and cattle producers in Australia and in the Christchurch area of New Zealand, April 26 to May 14. While in Australia Dr. Neumann participated in the annual meeting, show, and sale of the New England Angus Breeders Association, Tamworth, New South Wales.

Robert M. Skirvin, Horticulture, presented seminars on biotechnology in woody crop plants, and discussed possible cooperative research with scientists in Montpellier, Orsay, Paris, Toulouse, and Versailles, France, April 27 to May 15. Dr. Skirvin's trip was sponsored by the French Foreign Office.

Sandra Brown, Forestry, is collecting soil samples in Venezuela, June 6 to July 7. Dr. Brown will analyze the samples to determine the effects on soil organic matter of forest conversion to agriculture.

William G. Ruesink, Agricultural Entomology, left on June 9 for four weeks in Europe. In England he presented seminars on pest management modeling and systems approach at the London School of Hygiene and Tropical Medicine, the Rothamsted Experiment Station, and Imperial College, Silwood Park. Dr. Ruesink also discussed the use of simulation modeling and computerized information delivery for pest management with faculty at the Agricultural University, Wageningen,

Netherlands, and pest forecasting practices in Germany with researchers at the Institut fur Pflanzenschutz in Obstbau.

Thomas A. McCowen, Office of International Agriculture, attended a meeting of the Association of International Education Administrators, Denver, Colorado, June 10 and 11.

Dorthea Bedigian, graduate student in Agronomy, was an invited participant at the Sumerian Agricultural Group Working Session at Trinity College, London, England, on June 29 and 30.

Donald W. Graffis, Agronomy, will participate in the National Alfalfa Improvement Conference, Letherbridge, Canada, July 15 to 21.

Marcos Kogan, Agricultural Entomology, was chosen to participate in the 1984 Soybean Research Tour sponsored by ICI Americas Inc. and the American Soybean Association, July 15 to 25. Award recipients will visit public and private research facilities in the U.S. and Great Britain.

Harold E. Kauffman, INTSOY, Joseph A. Jackobs, Agronomy, and Michael E. Irwin, Agricultural Entomology, will attend the Asian Soybean Network Monitoring Tour and Meeting in Indonesia, July 16 to 22. The meeting, sponsored by INTSOY, IRRI (International Rice Research Institute), and AVRDC (Asian Vegetable Research and Development Center), will formalize cooperative soybean research activities among Asian countries and international centers.

Benjamin A. Rasmusen, professor emeritus in Animal Science, will preside at the 19th International Conference on Animal Blood Groups and Biochemical Polymorphisms, July 17, Gottingen, Germany.

Theodore Hymowitz, Agronomy, will collect seeds of wild species of Glycine

in the Cape York Peninsula of Australia, July 17 to August 4.

Harold W. Gonyou, Animal Science, will attend the International Congress on Applied Ethology in Farm Animals, Kiel, West Germany, August 1 to 4. En route Dr. Gonyou will visit research institutions at Reading and Babraham, England.

Howard L. Whitmore, Veterinary Clinical Medicine, delivered six lectures on bovine reproductive problems at the Universidad Nacional Autonoma de Mexico, Mexico City, and two lectures at Torreon, Mexico, in a program for veterinary practitioners and faculty members; June 21 to July 1.

VISITING RESEARCHERS AND TRAINEES

Deborah J. Gascoyne, Grassland Research Institute, Maidenhead, England, is working with Robert B. Hespell, Dairy Science, from June 1 through July 31 on the effects of xyitol (a sugar) on rumen microbial populations. Ms. Gascoyne will also learn anaerobic microbial techniques.

Marion Zareba, Senior Assistant, Department of Agricultural Economics, Warsaw Agricultural University, Poland, will begin a one-year program of study in Agricultural Economics on August 1. Dr. Zareba will prepare a comparative analysis of the management and production efficiency of farms in Poland and the Corn Belt of the U.S.

Masahiro Ito, pathologist at the Nagasaki University Medical School, arrived at UIUC in March for a two-year program in Food Science. He will work with Fred A. Kummerow on heart disease research.

Tijana Knezevic, Maize Research Institute, Zemun, Yugoslavia, began a six-month program in June in Agronomy on corn tissue selection and protoplast culture.

Hsin-sheng Tsay, Senior Agronomist, Taiwan Agricultural Research Institute, Taichung, will spend nine months at UIUC beginning in June sponsored by a National Science Council of Taiwan fellowship. Dr. Tsay will conduct research on anther culture for the production of haploids from corn and soybeans.

Tae Sakamoto is a visiting scientist for one year in Veterinary Biosciences. She is working with Steven P. Swanson on the identification of certain toxic metabolites, their secretion, and their distribution.

William John Brown, University of Saskatchewan, Saskatoon, Canada, will join the Agricultural Economics Department on July 1 for one year as a Visiting Assistant Professor. He will specialize in farm management and farm finance.

VISITORS COMING TO CAMPUS

Fourteen Hungarian feed industry managers will visit Animal Science and Dairy Science on July 2 and 3. Their visit is being arranged by Central Soya.

Theodore Panayotou, Harvard Institute for International Development and formerly Agricultural Development Council Associate at Kasetsart University, Bangkok, Thailand, will visit Agricultural Economics and present a seminar on July 25. Sam H. Johnson, 452c Mumford Hall, 333-0753, is arranging his schedule.

INT. WATER RESOURCES ASSOCIATION

The Executive Director's office of the International Water Resources Association was transferred to UIUC from Washington, D.C., in mid-June. Glenn E. Stout, Executive Director, can be contacted at 2535 Hydrosystems Labora-

tory, 208 N. Romine Street, Urbana, Illinois, 61801, 333-0536.

SEMINARS

July 12 Solving World Food Problems Through Plant Genetics - Norman Borlaug, 1970 Nobel Peace Prize winner. 8:00 p.m., Krannert Center for the Performing Arts Colwell Playhouse Theater, 500 S. Goodwin Ave., Urbana. (L. J. Norton seminar)

July 13 Politics vs. Technology in World Hunger - Norman Borlaug, 1970 Nobel Peace Prize winner. 3:00 p.m., 426 Mumford Hall. (L. J. Norton seminar)

July 25 Natural Resources in Developing Countries - Theodore Panayotou, Harvard Institute for International Development. 3:30 p.m., 426 Mumford Hall. (Agricultural Economics seminar)

SOYBEAN PRODUCTION COURSE

Sixteen participants are enrolled in INTSOY's short course entitled "Technical and Economic Aspects of Soybean Production": U Tun Thein and Nyunt Nyunt Wai, Agriculture Corporation, and Shirley Smellie, Agricultural Research Institute, Burma; Wang Peiying and He Zhihong, Heilongjiang Academy of Agricultural Sciences, China; Eduardo J. Mata M. and Luis Ricardo Quiros U., CARE, Costa Rica; Yehia Soliman Gayed, Ministry of Agriculture, Egypt; Titis Adisarwanto, Malang Research Institute for Food Crops, Indonesia; Toru Kawakami, Japan International Cooperation Agency; Arsene Williams Randriamamonjy and David Rakotoalivao, MAMISAO Enterprise, Madagascar; Mir Hatam, Northwest Frontier Province Agricultural University, Pakistan; Shu-Ching Wu, Provincial Department of Agriculture, Taiwan; Supon Thanooruk, Department of Agricultural Extension, Thailand; and Stanislous Nkumbula, Magoye Regional

Research Station, Zambia. This is the ninth time the 12-week course has been held at UIUC.

VISITORS RECENTLY ON CAMPUS

Lionel Sheridan, Allflex International, Palmerston North, New Zealand, met with Sidney L. Spahr, Dairy Science, and toured the dairy automation facilities on May 16.

Jacques Grall, Chief Agricultural Editor of Le Monde, Paris, France, toured Illinois Foundation Seed and met with Donald A. Holt, Agricultural Experiment Station, Charles M. Brown, Agronomy, and James F. Evans and Robert G. Hays, Agricultural Communications, May 29. His trip was sponsored by the U.S. Information Agency (USIA).

Gonzalo Juambeltz, Uruguay Ministry of Agriculture and currently an M.S. degree student in international agriculture at Cornell University, discussed Latin American agricultural development with Daniel Gianola, Animal Science, and Darrel L. Good, Frederick C. Fliegel, and Earl R. Swanson, Agricultural Economics, May 30. He also visited the Latin American and Caribbean Studies Center.

Abdul Farooq Lodhi, Chairman of the Department of Horticulture, and S. Basit Ali Shah, Dean of the Faculty of Animal Husbandry, Northwest Frontier Province Agricultural University, Peshawar, Pakistan, spent six weeks at UIUC and Southern Illinois University-Carbondale as part of a 16-week U.S. study tour sponsored by USAID. Dr. Lodhi studied research and extension programs in Horticulture and Dean Shah examined research and extension programs in dairy and animal science, and agricultural administration policies.

Jacob M. Mwanza, Vice-Chancellor, University of Zambia, Lusaka, was a visitor to the College of Agriculture and other UIUC units on June 3 and 4. Dr.

Mwanza discussed cooperative activities associated with the Zambia Agricultural Research and Extension (ZAMARE) project with Office of International Agriculture staff.

Jake Halliday, NiftAL Project, University of Hawaii, visited UIUC on June 4 and 5 and participated in discussions on the ZAMARE project in Zambia with University of Maryland, Eastern Shore, Southern Illinois University at Carbondale, and UIUC personnel.

S. C. Gupta, Department of Botany, University of Delhi, India, visited the laboratory of Jack M. Widholm and met with other Agronomy staff from June 13 to 17. Dr. Gupta's visit to UIUC was part of a U.S. tour sponsored by the National Science Foundation.

Paul Maina, director of Farming Systems-Kenya, Nakuru, visited UIUC on June 18. He discussed UIUC's Title XII project on microbial conversion of wastes into fuel and feed with the principal investigators, Donald L. Day, Agricultural Engineering, and Marvin P. Steinberg, Food Science.

Donald J. Minehart, National Agricultural Research Centre, Islamabad, Pakistan, was at UIUC on June 18 and 19 for discussions on development of experimental farms at the Northwest Frontier Province Agricultural University, Peshawar, and the provincial agricultural research system.

The International 4-H Youth Exchange (IFYE) and the Professional Rural Youth Leader Exchange (PRYLE) are conducted by the National 4-H Council to support 4-H programs of the Cooperative Extension Service. These visitors will live with farm families in Illinois and visit the 4-H program at UIUC: Masilokwa Lubasi, Provincial Youth Extension Officer, Limulunga, Zambia, PRYLE at UIUC on June 20; Roger Chi-Chiao Lo, tea farmer in Taiwan, IFYE at UIUC from June 20 to 23; Monica Smith, teacher trainee at Han-

over, Jamaica, IFYE at UIUC from June 26 to 28; Terry Clarke, Air Traffic Controller and 4-H Leader in St. Michael, Barbados, IFYE at UIUC on June 20; and Antonino Raffin, farmer from Cordenos, Italy, IFYE at UIUC on June 22.

Thirteen Danes between the ages of 18 and 22 will visit Illinois during July sponsored by IFYE. They will spend the four weeks with two host families.

Contact Ann Rund, State 4-H Office, 1901 University Inn (campus mail), 333-0910, for more information about these visitors.

Peter Speck of Galactina, Ltd., Belp, Switzerland, discussed soy beverages and soybean utilization with L. S. Wei, Food Science, on June 19.

NEW INTSOY PUBLICATION

International Soybean Variety Experiment, Eighth Report of Results, 1980-1981, by J. A. Jackobs, C. A. Smyth, and D. R. Erickson (INTSOY Series Number 26) is now in print. Copies are available from 113 Mumford Hall, 333-6422.

ASIAN SOYBEAN UTILIZATION WORKSHOP

The Sri Lankan Soybean Project and INTSOY, in collaboration with FAO, CARE, USAID, UNDP, and UNICEF, will hold a workshop at the Soybean Food Research Center, Gannoruwa, Peradeniya, Sri Lanka, January 14 to 26, 1985. The workshop will concentrate on the organization of national soybean projects and the utilization of soybeans in foods and food products that appeal to the eating habits of Asian consumers. Contact John W. Santas, INTSOY, for more information about the workshop.

INT. CONFERENCE ON FOOD AND WATER

"Water and Water Policy in World Food Supplies" is the theme of the International Conference on Food and Water, sponsored by Texas A&M University, May 26 to 30, 1985. Topics will include: world development, 1985-2000; constraints to increasing world food supplies; water as a constraint to world food supplies; irrigation and drainage in the world; new technology related to water and water policy; engineering and water management; the role and choice of water policy; making institutions work in water management, policy development, and food production; the role of national governments, international agencies, bilateral agencies, the private sector, and universities in international water and agricultural development.

Conference programs and registration forms are available from: Conference Registration, International Conference on Food and Water, Texas A&M University, College Station, Texas, 77843.

FARMING SYSTEMS SYMPOSIUM

Farming Systems Research and Extension: Implementation and Monitoring Symposium will be held at Kansas State University, Manhattan, from October 7 to 10, 1984. The symposium will feature a limited number of papers, poster sessions, and case studies, with time programmed for discussions and idea exchanges. A workshop of the Farming Systems Support Project (FSSP) participants will be held October 11 and 12. Registration information is available from: Kansas State University, Division of Continuing Education, Registration Office, 317 Umberger Hall, Manhattan, KS 66506; telephone (913) 532-5566.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign, 61801; Bonnie Irwin, editor. Faculty and Departments are encouraged to submit Newsletter items. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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AUG 1 1984

UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN



International Agriculture Newsletter

College of Agriculture and College of Veterinary Medicine, University of Illinois at Urbana-Champaign
113 Mumford Hall, 1301 W. Gregory Drive, Urbana, IL 61801, USA. Telephone (217) 333-6420; Telex 206957

August 1984 No. 75

INTERNATIONAL ACTIVITIES

Marlowe D. Thorne, Agronomy, has returned to campus upon completing an eighteen-month MUCIA (Midwest Universities Consortium for International Activities) assignment at the Institute for Agriculture and Animal Sciences, Tribhuvan University, Rampur, Nepal. Dr. Thorne served as team leader.

Roy K. Simons, Horticulture, presented an invited paper entitled "Graft Union Characteristics as Related to Dwarfing in Apple (Malus domestica Borkh)" at the International Society for Horticulture Science Symposium, Montpellier, France, May 20 to 30.

Thomas L. Frey, Agricultural Economics, was in Charlottetown and Summerside, Canada, from June 7 to 17. He presented a two-day workshop for extension staff and agricultural creditors on farm financial information management and analysis, and spoke at the annual meeting of the Atlantic Committee on Extension, Education, and Economics.

Miodrag Ristic, Veterinary Pathobiology, met with USAID officials in Washington, D.C., June 12 to 14, to discuss the malaria research network.

Janice M. Bahr and Patricia Johnson, Animal Science, participated in the International Avian Endocrine Meeting at Rutgers University, New Brunswick,

New Jersey, June 25 to 28. Dr. Bahr presented a symposium paper on ovarian function in the domestic hen and Dr. Johnson an abstract on regulation of ovulation.

Sam H. Johnson, Agricultural Economics, and Thomas A. McCowen, Office of International Agriculture, visited the offices of the Consortium for International Development (CID), Tucson, Arizona, June 6 and 7, to finalize plans for the India Irrigation Training and Research Project. UIUC, Colorado State University, University of Arizona, and Development Alternatives, Inc., are bidding together on this project. Dr. Johnson assisted in proposal writing, Ft. Collins, Colorado, June 17 to 19.

Dr. Johnson will present a paper on the economic impact of erosion on fish production in the Nam Pong Basin, Northeast Thailand, at the American Agricultural Economics Association meeting, Cornell University, Ithaca, New York, August 6 to 8.

Shashidhara Kolavalli, graduate student in Agricultural Economics, collected data on the economics of deep tube wells in the Asian subcontinent from World Bank, USAID, and the Ford Foundation in Delhi, India, and from the International Rice Research Institute (IRRI), Los Banos, Philippines, July 7 to 31.

Darrell A. Miller, Agronomy, participated in the 29th National Alfalfa

Improvement Conference, Letherbridge, Alberta, Canada, July 15 to 20.

Vickie L. Jarrell, Animal Science, attended the Sixth European Colloquium on Cytogenetics of Domestic Animals in Zurich, Switzerland, July 16 to 20, and the XIX International Conference on Animal Blood Groups and Biochemical Polymorphisms, Gottingen, West Germany, July 22 to 27.

Carolyn M. Pribble and Carolyn M. Sands, Office of International Agriculture, Mary A. Keith, Foods and Nutrition, T. Randall Fortenbery, Agriculture Experiment Station, and Sam H. Johnson, Agricultural Economics, participated in the Farming Systems Research/Extension Training Workshop, Southern Illinois University, Carbondale, July 16 to 20. Dr. Keith conducted a session entitled "Meeting the Nutritional Needs of the Limited Resource Farm Household," and Dr. Johnson a session entitled "Necessary and Sufficient Conditions for Institutionalizing Farming Systems Research/Extension."

Burton E. Swanson, INTERPAKS, participated in a planning workshop on technology transfer, July 17 and 18, Washington, D.C.

Earl B. Russell, Vocational and Technical Education, and Burton E. Swanson, INTERPAKS, attended the African Agricultural Education Conference in Yaounde, Cameroon, from July 23 to 27. Dr. Swanson presented the keynote paper at the opening session and Dr. Russell was a panelist. Enroute home, they met with W. D. Maalouf, Head of the Agricultural Education and Extension Service at FAO (Food and Agriculture Organization) in Rome, Italy.

Richard E. Ford, Plant Pathology, and Michael E. Irwin, Agricultural Entomology and Illinois Natural History Survey, attended the CICP (Consortium for International Crop

Protection) board meeting, Berkeley, California, July 24 to 26.

Frank J. Stevenson, Agronomy, attended the Second International Conference of the International Humic Substances Society, July 23 to 28, Birmingham, England, where he presented a paper on reductive degradation of humic substances.

Joseph A. Jackobs, Agronomy, will be in Guyana from July 29 to August 10 as a consultant for FAO on soybean production.

Jeffrey O. Dawson, Forestry, will edit the proceedings of an international conference entitled "Frankia and Actinorhizal Plants," to be held August 5 to 8 at Laval University, Quebec, Canada.

George F. Sprague, Emerson D. Nafziger, and John W. Dudley, Agronomy, will attend a symposium on integrating the maize research of U.S. universities with international agricultural research centers. The symposium will be held at CIMMYT (International Maize and Wheat Center), Mexico, August 9 to 14, sponsored by CIMMYT and University of Minnesota.

Robert W. Howell, Agronomy, will assist in a review of an FAO project to strengthen the Soybean Research Institute, Heilongjiang Academy of Agricultural Sciences, China, in late August. It is Dr. Howell's third trip to China on this FAO project.

Jack D. Paxton and Kevin Simcox, Plant Pathology, will participate in the International Conference on Molecular Basis of Plant Disease, August 19 to 23, University of California, Davis.

VISITING RESEARCHERS AND TRAINEES

Saeedul Hassan Siddiqi, Associate Professor of Plant Breeding and

Genetics at the Northwest Frontier Province Agricultural University, Peshawar, Pakistan, arrived at UIUC on July 6 for a three-month U.S. study tour. Dr. Siddiqi will study techniques and equipment used to screen germplasm for protein quality with cytogenetic researchers in Agronomy and the USDA. In addition, he will also work at Purdue University, University of Wisconsin-Madison, and Kansas State University.

Jae-Young Son, a veterinarian and parasitologist in the Department of Animal Sciences, Yeungnam University, Gyeongsan, Korea, arrived in mid-June to spend two and a half months visiting faculty and laboratories in Veterinary Pathobiology. Dr. Son's program was arranged by Kenneth S. Todd.

VISITORS COMING TO CAMPUS

Roger A. Farrow, Principal Research Scientist, CSIRO, Canberra, Australia, will visit Illinois from July 30 to August 2. An entomologist working on insect movement, Dr. Farrow will meet with entomologists and meteorologists in the Pests and Weather Group of the Illinois Natural History Survey, Illinois State Water Survey, and UIUC. Michael E. Irwin, 172 Natural Resources Building, 333-1963, is arranging his schedule.

Thomas Henderson, Professor and Director of Agricultural Extension at the University of the West Indies at Trinidad, will visit INTERPAKS faculty from August 8 to 18. Contact Burton E. Swanson, 113 Mumford Hall, 333-4350, to meet with Dr. Henderson.

John A. Patterson, USAID representative in Zambia, will be on campus August 16 and 17 for discussions on the Zambian Agricultural Research and Extension (ZAMARE) project.

A group of 17 Swedish farmers will visit the College of Agriculture on

August 15 and 16. The group will be hosted by Stanley E. Curtis, Animal Science, Richard P. Kesler, Agricultural Economics, and Arthur J. Muehling, Agricultural Engineering.

VISITORS RECENTLY ON CAMPUS

S. C. Gupta, Department of Botany, University of Delhi, India, discussed tissue culture techniques with Martin M. Meyers, Horticulture, June 15.

Chris Back, Muresk Agricultural College, Australia, discussed teaching programs with James F. Evans, Agricultural Communications, and Lawrence Apps, June 21 and 22. Mr. Apps is on study leave at UIUC from the Western Australian Institute of Technology (WAIT), where he coordinates the rural journalism degree program offered cooperatively by WAIT and Muresk.

Sixteen participants in Purdue University's Integrated Pest Management Short Course visited the Illinois Natural History Survey and the College of Agriculture on July 10. They met with Economic Entomology and Agricultural Entomology staff, and toured the Soybean Insect Research Information Center (SIRIC) and the International Soybean Arthropod Collection (ISAC).

Masilokwa M. Lubasi, Provincial Youth Extension Officer, Limlunga, Zambia, visited UIUC on July 12 as part of an Illinois visit sponsored by the Professional Rural Youth Leader Exchange (PRYLE) of the National 4-H Council. Mr. Lubasi met with Samuel F. Ridlen and Upson S. Garrigus, Animal Science, Jean M. Due, Agricultural Economics, Emerson D. Nafziger, Agronomy, Donald E. Kuhlman, Illinois Natural History Survey and Agricultural Entomology, and Carolyn M. Pribble, John W. Santas, J. B. Claar, and Earl D. Kellogg, Office of International Agriculture.

I. F. Martin, Department of Primary Industries, Kairi, Australia, met with the Agronomy maize breeding group on July 12.

Recent visitors to the laboratories of Miodrag Ristic, Veterinary Pathobiology, include Georg Weiland, University of Munich, West Germany, to discuss programs on Babesia and Plasmodium, July 14 to 21; and Jacques Armand, Director of Research at the Institute Merieux, Lyon, France, to discuss joint research projects, July 25 and 26.

Ray Richardson, Internacional Equipamentos Agricolas Ltd., and Tsuneo Takamura, Tukasa Tomonaga, Wilson T. Suruwatari, and Ninoru Suzuki, Mitsui Fertilizer S.A., Dourados, Brazil, visited laboratories in Plant Pathology and toured the Agronomy-Plant Pathology South Farm, July 15.

Ten U.S. soybean researchers and extension specialists visited Illinois on July 18 as part of a tour of major public and private soybean research facilities in the U.S. and Great Britain. The tour is part of an annual recognition program sponsored by the American Soybean Association and ICI Americas, Inc. Marcos Kogan, Agricultural Entomology and Illinois Natural History Survey, was one of the award participants. The Illinois portion of the tour was arranged by Gary E. Pepper, Agronomy.

Katsuhiro Mizuguchi, Osamu Kimura, and Yushiro Noh-hata, Nisshin Feed Co., the largest soybean processor in Japan, met with Aldon H. Jensen, Carl M. Parsons, Larry L. Berger, and Upson S. Garrigus, Animal Science, and Jimmy H. Clark and Sidney L. Spahr, Dairy Science, on July 19. They were escorted by Karl Sera, American Soybean Association, Japan.

N. P. Saxena, plant physiologist in the Pulses Program at ICRISAT (International Crops Research

Institute for the Semi-Arid Tropics), Hyderabad, India, met with Bruce L. Vasilas, Agronomy, John J. Hesketh and Doyle B. Peters, USDA/Agronomy, and John S. Boyer and Idupulapati M. Rao, Plant Biology, July 20.

Twenty-two participants in the Seed Improvement Course offered by Mississippi State University and USDA visited UIUC from July 23 to 31. A. W. Burger coordinated the agronomy program from July 23 to 27, and John H. Behrens coordinated the agricultural communications program on July 30 and 31. The group was accompanied by C. Hunter Andrews, technical leader and agronomy professor at MSU.

Theodore Panayotou, Associate of the Agricultural Development Council (ADC), New York, and currently on sabbatical leave from Harvard University, met with Agricultural Economics staff and presented a seminar on environmental and resources constraints to sustainable agricultural growth in Thailand, July 25.

Arnold T. Tschanz, plant pathologist at the Asian Vegetable Research and Development Center (AVRDC), Taiwan, discussed soybean research with Harold E. Kauffman, INTSOY, Richard E. Ford and James B. Sinclair, Plant Pathology, Joseph A. Jackobs, Agronomy, Richard L. Bernard, USDA/Agronomy, and Michael E. Irwin, Agricultural Entomology and Illinois Natural History Survey.

Four agriculturalists from the North-west Frontier Province, Pakistan, discussed farmer education with J. B. Claar, INTERPAKS, and soybean production, marketing, and utilization with William N. Thompson, Thomas A. McCowen, and Harold E. Kauffman, Office of International Agriculture, Joseph A. Jackobs, Danny R. Erickson, and Emerson D. Nafziger, Agronomy, Sam H. Johnson, Agricultural Economics, and S. W. Yeh, Wilmot Wijeratne, and Alvin I. Nelson, Food Science,

July 27 and 28. Their trip was sponsored by the U.S. Department of State's Narcotics Reduction Program.

Dely Gapasin, Director of the Crops Research Department, Philippine Council for Agriculture and Resources Research and Development (PCARRD), met with INTSOY and Agronomy Department staff on July 30 and 31 to discuss the Philippine soybean program.

NEW OIPS DIRECTOR

James R. Millar, professor of economics and an expert on the Soviet Union, was recently appointed Director of the Office of International Programs and Studies (OIPS) and Associate Vice Chancellor for Academic Affairs. Currently the University has 78 institutional agreements around the world for various types of exchanges, and another 27 agreements are in the inquiry stage.

An external advisory committee of business executives was appointed last year to advise on international program development and fund raising to support international research and education at UIUC.

DO YOU NEED A SPEAKER?

The new edition of the "World Affairs Service Directory" is now available from the Office of Continuing Education in International Affairs, 205 Arcade Bldg., 725 S. Wright St., Cham-

paign 61820. Off-campus requests should include \$1.00 for handling.

The directory lists University of Illinois faculty with international experience or research willing to speak to organizations. Topics are diverse and include most disciplines studied at the university.

OFFICE OF INTERNATIONAL AGRICULTURE DOCUMENT CENTER

The Office of International Agriculture maintains a pamphlet collection of information on international centers, donor agencies, world hunger, and foreign countries. Materials include newsletters, annual reports, proceedings of conferences, and agricultural information of international interest.

You are encouraged to use this collection, which is kept in room 204 Forest Science Laboratory. If you have brochures, pamphlets, or other items to donate, contact Bonnie J. Irwin, 333-0264.

CONFERENCE ON IRRIGATION AND DRAINAGE

"The Development of Irrigation and Drainage in the American Countries: Problems and Solutions" is the theme of the First Regional Pan American Conference, which will be held in Salvador, Bahia, Brazil, October 15 to 19, 1984. The conference program and registration forms are available from Bonnie Irwin, 113 Mumford Hall, 333-0264.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. Contact the Office of International Agriculture to receive your own copy of this Newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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September 1984, No. 76

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INTERNATIONAL ACTIVITIES

OCT 11 1984

Adnan Sulong, recent Ph.D. in Dairy Science, has rejoined the Faculty of Veterinary Medicine and Animal Sciences, Universiti Pertanian Malaysia, Serdang, Selangor.

James R. Karr, Forestry and Ecology, Ethology, and Evolution, is on leave of absence to work on tropical forest ecology at the Smithsonian Tropical Research Institute, Balboa, Panama. Dr. Karr's mailing address is c/o the Smithsonian Tropical Research Institute, APO Miami 34002.

Adeyinka I. Cole, graduate student in Veterinary Pathobiology, was in Kuala Lumpur, Malaysia, from July 13 to August 6. Mr. Cole worked with a U.S. Army team performing serology tests on patients with Rickettsia sennetsu and malaria.

Dennis A. Lawn and Edward J. Sikora, Plant Pathology, and Gregory R. Noel, Plant Pathology/USDA, participated in the First International Congress of Nematology, Guelph, Ontario, Canada, August 6 to 9. Mr. Lawn presented a paper entitled "Monozenic Culture of Pratylenchus scribneri on Carrot Discs" and Dr. Noel a paper entitled "Multilines and Aldicarb for Control of the Soybean Cyst Nematode."

Johannes M. J. deWet, Agronomy, was in Mexico and England during August.

At CIMMYT (Centro Internacional de Mejoramiento de Maiz y Trigo), Mexico, he worked on a cooperative project on DNA mediated gene transfer in maize. In England, Dr. deWet attended symposiums at the University of London and Oxford University on DNA mediated gene transfer and variation in millet.

UIUC and the Illinois Natural History Survey were well represented at the World Soybean Research Conference III, Ames, Iowa, August 12 to 17. Participants included: Loren E. Bode, Agricultural Engineering; John W. Hummel, Agricultural Engineering/USDA; U. Barwale, R. Caro, Danny R. Erickson, L. Gray, P. M. Hanson, S. A. Harrison, Robert W. Howell, Theodore Hymowitz, S. Lin, Joseph A. Jackobs, C. Moots, Emerson D. Nafziger, Cecil D. Nickell, J. D. S. Panwar, Gary E. Pepper, S. Rogers, S. A. Sebastian, J. R. Smith, Charlie A. Smyth, R. Stahlhut, David Willmot, and L. Frederick Welch, Agronomy; Richard L. Bernard, James E. Harper, John D. Hesketh, Randall L. Nelson, William L. Ogren, Doyle B. Peters, Edward W. Stoller, Lloyd M. Wax, and Joseph T. Woolley, Agronomy/USDA; Tzu-Suan Chu, Dan Fischer, Charles G. Helm, Gail Kampmeier, Jenny Kogan, and Marcos Kogan, Agricultural Entomology/Economic Entomology; Lun-Shin Wei, Food Science; Harold E. Kauffman, INTSOY; Kevin J. Cavanaugh, Lawrence E. Datnoff, Richard E. Ford, C. Caio Machado, JuJu

B. Manandhar, Mukishi M. Pyndji, and James B. Sinclair, Plant Pathology, and Ellen Brewer, INHS.

Burton E. Swanson, INTERPAKS, was a panelist at a Joint Committee on Agricultural and Rural Development (JCARD) forum entitled "Human Resource Development and Training," August 13, Washington, D.C.

Delmar F. Wilken, Agricultural Economics, was the Technical Resource Person for a group of Illinois agricultural leaders on a People-to-People International Goodwill Mission to Europe and the Soviet Union, July 16 to August 14.

Joseph W. Stucki, Agronomy, participated in the International Symposium on Water and Solute Movement in Heavy Clay Soils, Wageningen, Netherlands, August 27 to 31. He also met with researchers in France, Germany, Ireland, and England.

UIUC faculty who presented papers at the Eighth International Pig Veterinary Society Congress in Ghent, Belgium, August 27 to 31, include: LeRoy G. Biehl, Veterinary Pathobiology, comparison of antibiotics for treating swine dysentery; Lisa A. Lund and William C. Wagner, Veterinary Biosciences, regulation of prolactin in the sow; G. John Benson, Veterinary Clinical Medicine, data on a method to evaluate stress in pigs; and Ross P. Cowart, Veterinary Clinical Medicine, strains of Pasteurella multocida found in association with atrophic rhinitis.

Attending the 10th International Congress of Agricultural Engineering, Budapest, Hungary, September 3 to 7, are B. Jack Butler and Arthur J. Muehling, Agricultural Engineering, and Stanley E. Curtis, Animal Science.

Dr. Muehling will be General Reporter for the session on Technical Solutions in Agricultural Buildings

for Low Energy Consumption in Storage and Processing, and will present a paper entitled "Tempering Ventilation Air with Earth-Tube Heat Exchangers in Swine Buildings." The paper is co-authored by Warren Goetsch, Area Adviser for Regions 4 and 6, Agricultural Engineering.

Dr. Curtis will serve as General Reporter for the session on Animal Environments.

Robert G. Hoeft, Agronomy, will present a paper at the International Fertilizer Industry Association Seminar and the Danish Machinery Manufacturers Conference, Copenhagen, Denmark, September 5 to 13. Dr. Hoeft will also discuss research with scientists at the University of Bonn, Germany.

William C. Wagner, Veterinary Biosciences, was elected to a twelve-year term on the Executive Committee of the International Congress on Animal Reproduction and Artificial Insemination when the Congress met at UIUC in June.

Dr. Wagner will spend a nine-month sabbatical at the Federal Institute for Agricultural Research in Animal Breeding and Production, Mariensee, West Germany, beginning in mid-September, supported by the Fulbright Exchange Program and the Alexander von Humboldt Foundation. He will continue research on mechanisms regulating estrogen synthesis by the placenta in cows, examine the relationship of changes in hormone synthesis to the regulation and timing of the birth process, and investigate the regulation of prolactin in pigs.

Sam H. Johnson, Agricultural Economics, will attend a workshop on microcomputer applications in agricultural research, September 24 to 27, at the International Rice Research Institute (IRRI), Los Banos, Philippines. Dr. Johnson will also visit AVRDC (Asian Vegetable Research

and Development Center), Taiwan, to meet with Agricultural Economics graduate student Jane Gleason.

VISITING RESEARCHERS AND TRAINEES

Aliza Meiri, Volcani Institute, Bet Dagan, Israel, is on sabbatic leave at UIUC working with James B. Sinclair, Plant Pathology.

Kyung-Ku Shim, Dean of the College of Agriculture, Sung Kyunkwan University, Korea, is spending a year's leave in the Horticulture Department working with John S. Titus on seasonal changes in nitrogenous compounds of ginko trees. Dr. Shim is supported by a Fulbright Senior Research Grant.

Mohammad Tariq, Department of Agricultural Mechanization at the Northwest Frontier Province Agricultural University, Peshawar, Pakistan, is a visiting scholar for one year in Agricultural Engineering.

Knut Boe, Department of Building Technology, Agricultural University of Norway, As, is a Fulbright Research Scholar at UIUC through December. He is working with Stanley E. Curtis, Animal Science, on swine environment and behavior.

Andreas A. Siegerink, Animal Husbandry Department, Agricultural University, Wageningen, Netherlands, is spending three months as a visiting student in the laboratory of Dr. Curtis.

VISITORS COMING TO CAMPUS

Cornelis A. Kan, a biochemist at the Spelderholt Center for Poultry Research and Extension, Beekbergen, Netherlands, will visit UIUC from September 14 to 17 during a three-week tour of U.S. laboratories. Dr. Kan will present a seminar entitled "Toxic Substances in Farm Animals: Surveys

and Research Conducted in the Netherlands." Contact Larry G. Hansen, Veterinary Biosciences, 3609 Veterinary Medicine Basic Sciences Building, 333-6839, for seminar venue.

A group of thirteen Australian farmers will tour beef, swine, and dairy research facilities on September 12. They are sponsored by A. O. Smith Harvestore Products, Inc.

Ian E. Coop, professor emeritus in the Department of Animal Science, Lincoln College, Christchurch, New Zealand, will be the guest speaker at UIUC's 1984 Sheep Expo, September 15. On September 17 Professor Coop will present lectures on the pastoral livestock industries of New Zealand and on the development of the Coopworth breed of sheep. Details about the seminars and Prof. Coop's visit are available from David L. Thomas, 156 Animal Sciences Lab., 333-0233.

A group of Argentine agronomists will discuss minimum tillage research with Loyd M. Wax, Agronomy/USDA, and John W. Hummel, Agricultural Engineering/USDA, on September 29. The visit is arranged by Asgrow Seed Company, Ames, Iowa.

C. Jean Weidemann, Chief of the Institutional and Human Resources Division, Board for International Food and Agricultural Development (BIFAD), Washington, D.C., will visit UIUC on October 3 and 4, and present a seminar on October 3. For more information on her visit and seminar details contact Romy Borooah, WID Office, 3014 Foreign Languages Building, 333-1977.

VISITORS RECENTLY ON CAMPUS

Recent visitors with Michael Grossman, Dairy Science, include Werner Leidl, University of Munich, Germany, to discuss research on dairy goats, June

14, and Akke J. van der Zijpp, Agricultural University, Wageningen, Netherlands, to discuss animal genetics, June 20.

Bernard Mollard, Societe Bourguignonne de Mecanique, Ruffey les Echirey, France, discussed environmental management techniques in swine production with Stanley E. Curtis, Animal Science, on June 26.

Mark Makowiak, Department of Parasitology, Institute Merieux, Lyon, France, visited the laboratories of Miodrag Ristic, Veterinary Pathobiology, July 8 to 14, to discuss joint work on research programs on bovine babesiosis and malaria vaccine development.

G. I. Christison, Department of Animal Science, University of Saskatchewan, Canada, met with Arthur J. Muehling, Agricultural Engineering, and Stanley E. Curtis, Animal Science, on July 18 and 19 to discuss swine housing research and development.

V. R. Naik, Head, Department of Communication, National Institute of Health and Family Welfare, New Delhi, India, discussed communications programs and activities with Agricultural Communications, Cooperative Extension Service, and Rural Sociology staff, July 19 to 21.

A group of 57 Japanese children arrived in Illinois on July 24 to spend one month with Illinois 4-H families. This is part of an annual exchange to foster intercultural understanding.

Clair Hershey, cassava breeder at CIAT (Centro Internacional de Agricultura Tropical), discussed the cassava improvement program at CIAT with Edward Carey, graduate student, and others in Horticulture, July 26.

A group of eight Brazilian agriculturalists associated with the

cooperative COTIA toured the Agronomy-Plant Pathology South Farms with Doyle B. Peters, Agronomy/USDA, on July 31. Their tour was arranged by the Chicago Board of Trade.

E. A. Heinrich, Head of the Department of Entomology, International Rice Research Institute (IRRI), presented a seminar on rice insect control tactics and met with staff in Economic Entomology on August 1 and 2.

Luis Bayamo, FAO/Mozambique, discussed soybean production and utilization with Harold E. Kauffman, INTSOY; Wilmot Wijeratne, Ricardo Villota, and Sing-wood Yeh, Food Science; Errol D. Rodda, Agricultural Engineering; Danny R. Erickson, Randall L. Nelson, Gary E. Pepper, and Charlie A. Smyth, Agronomy; Michael E. Irwin and Gail Kampmeier, Agricultural Entomology and Illinois Natural History Survey; and James B. Sinclair, Plant Pathology, August 6 to 10. Mr. Bayamo also visited Illinois Foundation Seeds.

Faud D. Farah, an engineer with the Ministry of Agriculture, Nazareth, Israel, met with Donald L. Day and others in Agricultural Engineering on August 15 to discuss swine feedlots, environmental quality, and pollution control.

Mozammel H. Khan, Kuwait Institute for Scientific Research, Safat, visited Agricultural Engineering on August 9 and 10. Dr. Khan received his Ph.D. from Agricultural Engineering in 1979.

K. Palaniyappan, Manager, Seeds and Pesticides, Sakthi Sugars, Ltd., Coimbatore, India, met with Randall L. Nelson, Agronomy, Sheldon W. Williams, Agricultural Economics emeritus, Errol D. Rodda, Agricultural Engineering, James Hitzman, Food Science, and Harold E. Kauffman, INTSOY, on August 9 and 10.

Merete Hansen, teacher at Ladelund

Landbrugsskole, Jylland, Denmark, discussed sweet corn breeding and processing with John A. Juvik, Horticulture, William Artz, Food Science, and Pat Mosley, Illinois Foundation Seeds, August 28 and 29.

SEMINARS

September 20 The U.N. Decade for Women: Lessons Learned and Strategies for the Future - Kathleen Cloud, INTERPAKS.

noon, Wahl Room, YMCA, 1001 South Wright Street, Champaign.
(WID seminar)

October 3 C. Jean Weidemann, Chief of the Institutional and Human Resources Division, Board for International Food and Agricultural Development (BIFAD).
4:00 p.m., 426 Mumford Hall.
(International Agriculture Seminar)

WID WORKSHOP

"Opportunities for International Women: All You Ever Wanted to Know About Working and Learning in Champaign-Urbana - For Free, For Pay, For Fun" will be held on Saturday, September 29, from 9:00 a.m. to noon in room 407 Levis Center. Breakfast will be served and free babysitting will be provided. For further information contact the Women in International Development Office, 3014 Foreign Languages Bldg., 333-1977.

SAO PAULO MEMORANDUM OF AGREEMENT

UIUC, through the College of Agriculture, has signed a Memorandum of Agreement with the Escola Superior de Agricultura 'Luis de Queiroz' of the University of Sao Paulo, Brazil. The memorandum will facilitate cooperative activities. John W. Santas, Office of International

Agriculture, 113 Mumford Hall, 333-3638, is Liaison Officer for UIUC.

ZAMBIA TRAINING UPDATE

Twenty-two participants are currently enrolled in degree programs in U.S. universities under the Zambian Agricultural Research and Extension (ZAMARE) project, and thus far forty Zambians have been sponsored for short-term nondegree training conducted at U.S. universities. Numbers of both degree and nondegree participants will continue to grow in the months ahead.

PUBLICATIONS AVAILABLE

"Knowledge Transfer in Developing Countries: Status, Constraints, Outlook. Proceedings of a Conference on International Extension held at Steamboat Springs, Colorado, July 1983," edited by J. B. Claar and L. H. Watts. 59 pages, 1984. Copies are available from INTERPAKS, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, IL 61801.

"Characterization of Soybean Expansion and Consequent Agricultural Changes in the State of Parana, Brazil, 1970 to 1980" by John E. Bowman. Centro Nacional de Pesquisa de Soja, Londrina. 53 pages, 1983. Copies are available from John E. Bowman, CIMMYT, A.P. 6-641, Mexico D.F., Mexico.

"Development Communications in the Third World. Proceedings of a Midwest Regional Symposium at the University of Illinois, April 15, 1983," edited by Vickie A. Sigman. International Agriculture Publications General Series No. 2. 72 pages, 1984. Single copies are available from the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, IL 61801.

PAKISTAN UNIVERSITY PROJECT APPROVED

The Northwest Frontier Province Agricultural University, Pakistan, project was recently approved by AID/Washington and USAID/Islamabad, and will begin on October 1, 1984. UIUC, with Southern Illinois University at Carbondale collaborating, will now submit a technical and cost proposal for the first four years of the project. J. J. Kamerer, UIUC Office of Grants and Contracts, and Thomas A. McCowen and William N. Thompson, Office of International Agriculture, will go to Islamabad on September 25 to

negotiate the contract with USAID. The project calls for long term (two years or longer) specialists in the following professional areas: institutional development and team leader; agricultural research; agricultural teaching; agricultural outreach (extension); agricultural engineering; rural social sciences; irrigation and water management; learning resources; communications production; dairy production; meat animal production; and research station management. Faculty members interested in one of the positions should contact Thomas A. McCowen, 113 Mumford Hall, 333-6420.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. Contact the Office of International Agriculture to receive your own copy of this Newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

Office of International Agriculture
College of Agriculture
University of Illinois at Urbana-Champaign
113 Mumford Hall
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Urbana, Illinois 61801, USA

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October 1984, No. 77

William N. Thompson Retirement Recognition Activities

On September 1, 1984, William N. Thompson retired as Associate Dean and Director of International Agriculture after a full and distinguished career in the College of Agriculture. To honor his dedicated service, the College is sponsoring two events to which the public is invited:

October 18 3:00 p.m. in room 180 Bevier Hall - recognition ceremony and lecture on the role of U.S. universities in international agricultural development. The keynote speaker is Lowell Hardin, professor emeritus of agricultural economics at Purdue University.

October 18 5:00 p.m., second floor of the Levis Faculty Center, 919 West Illinois Street, Urbana - reception for Dr. and Mrs. Thompson.

INTERNATIONAL ACTIVITIES

G. S. Miranpuri, National Institute of Health fellow in the hemotropic disease research laboratory in Veterinary Medicine, attended an international acarology course at Ohio State University, Columbus, from June 24 to July 25. The course was entitled "Medical-Veterinary Entomology: Ticks and Mites as Vectors."

Deirdre Birmingham, recent graduate from Agronomy, will work for one year in Nakeru, Kenya, on an agricultural development project for small-scale farmers. The project is directed by the Nakeru Laymens Association of the Africa Inland Church.

Burton E. Swanson, INTERPAKS, participated in a USAID-sponsored Technology Management workshop in Washington, D.C., September 4 to 7.

Jack M. Widholm, Agronomy, was an invited participant in the Primary and Secondary Metabolism of Plant Cell Culture Symposium, held at Giessen, West Germany, from September 6 to 8.

Larry L. Berger, George C. Fahey, and Neal R. Merchen, Animal Science, participated in the International Ruminant Physiology and Nutrition Symposium at Banff, Canada, September 9 to 12.

Earl D. Kellogg, Office of International Agriculture, was recently appointed to the CIMMYT/University International Maize Working Group and attended the first meeting on September 13 and 14, University of Nebraska, Lincoln.

James B. Sinclair, Plant Pathology, was in southern Turkey from September 14 to 24 to work with soybean

pathologists and extension workers on diagnosis and control of soybean diseases.

Dr. Sinclair was invited by the Government of Egypt to participate in the Sixth Congress of the Mediterranean Phytopathologists Union, Cairo, Egypt, from October 1 to 7. After the congress Dr. Sinclair will visit FAO/Rome to confer about collaborative INTSOY training activities in Turkey and Zimbabwe.

Stanley E. Curtis, Animal Science, is evaluating swine production systems and conducting workshops on management of young pigs in Chile, the Dominican Republic, Jamaica, Colombia, and Venezuela from September 19 to October 4 under the auspices of the U.S. Feed Grains Council.

Earl D. Kellogg, Office of International Agriculture, met with UIUC's International External Advisory Committee in Chicago on September 20.

Harold E. Kauffman, INTSOY, traveled in Asia from August 26 to September 7. He discussed long-term INTSOY activities with USAID personnel in India and Pakistan. In China Dr. Kauffman attended the dedication of the Soybean Research Institute at the Heilongjiang Academy of Agricultural Sciences and participated in a soybean science symposium.

Thomas A. McCowen and William N. Thompson, Office of International Agriculture, and J. J. Kameron, Grants and Contracts, are in Pakistan from September 26 to October 5 to negotiate the implementation contract for Phase I of TIPAN (Transformation and Integration of the Provincial Agricultural Network). TIPAN is the project name for UIUC activities at the Northwest Frontier Province Agricultural University, Peshawar.

J. B. Claar, INTERPAKS, and Robert P. Bentz, Cooperative Extension Service, are in Pakistan from September 25 to October 6 to assist with

pre-planning of the outreach program of TIPAN. They will also meet with FAO and World Bank personnel in Rome, Italy, to coordinate extension initiatives of these two organizations in Pakistan.

Russell T. Odell, Agronomy emeritus, is in Pakistan from September 25 to October 11 to consult on the integration of the research functions of the NWFP Department of Agriculture with the NWFP Agricultural University.

Jean M. Due, Agricultural Economics, was invited to China for five weeks beginning September 26. Dr. Due will lecture at Nankai University, Tianjin, and Beijing University. During her stay in Beijing she will be joined by Jane Gleason, a graduate student in Agricultural Economics who is currently collecting Ph.D. thesis data in Taiwan.

Dr. Due will then travel to Africa to consult with colleagues in Tanzania, Kenya, and Rwanda on the Bean/Cowpea CRSP (Collaborative Research Support Project) and meet with ZAMARE team members and University of Zambia researchers.

Charles Chabala and Sam H. Johnson, Agricultural Economics, and Carolyn M. Pribble, J. B. Claar, and Earl D. Kellogg, Office of International Agriculture, will participate in the Farming Systems Research Symposium, Kansas State University, Manhattan, October 7 to 10. Dr. Johnson and Dr. Claar will present a paper entitled "FSR/E: Shifting the Interaction of Research and Extension."

David H. Baker, Animal Science, will deliver two lectures at the Ajinomoto Company in Japan, October 13 to 19.

Jack E. Harlan, Agronomy emeritus, delivered an invited paper entitled "Transfer of DNA from One Plant to Another Without the Formation of True Hybrids" at the 10th Phytogenetic Congress of Mexico, Aguascalientes, August 27 to 31.

The College of Agriculture and the College of Veterinary Medicine welcome the following new foreign graduate students to the University of Illinois at Urbana-Champaign:

AGRICULTURAL ECONOMICS

Khalid Abdul-Rahim, Malaysia, environmental economics; Rubin Acedo, Mexico, agricultural finance; Richard Carew, Canada, international rural development; Fructuoso Castanon, Mexico, poultry nutrition; Charles Chabala, Zambia, farm management; Shi-Miin Liu, Taiwan, food and agricultural policy; R. Maria Saleth, India, international agricultural economics; Wesley Whittaker, Jamaica, agricultural finance marketing; Pei-Ing Wu, Taiwan, natural resource economics; Diego Botero, Colombia, farm management.

AGRICULTURAL ENGINEERING

Xinqun Gui, China, farm power and machinery; Sulaiman Bin Mohammad Zain, Malaysia, farm power and machinery.

AGRONOMY

Patrick A. Agbu, Nigeria, soils reclamation; Yue-Ie C. Hsing, Taiwan, plant physiology; Mireille Khayrallah, Lebanon, plant physiology/genetic engineering; Hung-Shung Lu, Taiwan, plant breeding; Khan B. Marwat, Pakistan, crop production; Egide Nizeyimana, Rwanda, soils; Hassan A. Wahab, Malaysia, forages; Nihol Welikala, Sri Lanka, soils; Jingsong Ye, China, plant physiology/genetic engineering; Urs Zanoni, Switzerland, plant breeding.

ANIMAL SCIENCE

Yung-Kang Fu, Taiwan, microbiology; Jih-Tay Hsu, Taiwan, ruminant nutrition; John J. Klir, Czechoslovakia, environmental physiology; David E. Laurin, Canada, nonruminant nutrition; Min-Young Lee, Korea, biotechnology; Hiroaki Nitta, Japan, environmental physiology; Seonghee C. Park, Korea, meat science; Tae-Jin Rhim, Korea, nutritional biochemistry;

Yose Rizal, Indonesia, animal nutrition; Yuejin Yu, China, meat science.

DAIRY SCIENCE

Mark G. Cameron, Canada, management.

FOOD SCIENCE

Asbi Ali, Malaysia, food processing; Darnoko, Indonesia, food processing; Lazaros T. Kakalis, Greece, food chemistry; Adela Mora-Gutierrez, Venezuela, food chemistry; Essy F. Sahore, Ivory Coast, food processing; Susy Tejayadi, Indonesia, food processing; Kukiat Tanteeratarm, Thailand, food processing.

FORESTRY

Biing T. Guan, Taiwan, forest ecology; Mohammed Rafique Uddin, Bangladesh, forest genetics and tree improvement; Yiling Xiong, China, wood science.

HUMAN RESOURCES AND FAMILY STUDIES

Yu-Chey Jade Kuan, Taiwan, consumer economics; Patrick Walson, Nigeria, economics of consumption; Vaidya Swati, India, textiles and apparel; Hanna Hanneeda, Egypt, foods and nutrition; Debbie O'Connor, Canada, nutrition; Mohamed Sika, Morocco, nutrition; Valerie Kolstad, England, child development; B. C. Shoba, India, international development and child development; Kulwaradda Singha, Thailand, human development.

HORTICULTURE

Bih-Jien Shen, Taiwan, plant physiology and breeding; Meng-chun Hu, Taiwan, plant breeding.

PLANT PATHOLOGY

Karen Engst, China, diseases and breeding for resistance; Suparyono, Indonesia, bacteriology/mycology.

VETERINARY MEDICINE

Namit Ghildyal, India, veterinary microbiology; Chih-heng Ko, Taiwan, veterinary clinical medicine; Young Ro Kwak, Korea, veterinary epidemiology; Irene Munsiff, India, veterinary pharmacology.

VISITING RESEARCHERS AND TRAINEES

Anna Denholm, Ph.D. student in the Department of Biochemistry, University College of Wales, Aberystwyth, is working in the laboratory of Marvin P. Bryant, Dairy Science, from September 15 to November 9.

Hiroyuki Arai, Department of Pharmaceutical Science, Tokyo University, Japan, is working with Toshiro Nishida, Food Science, for two years on enzyme systems associated with lipoprotein metabolism. Dr. Arai is located in room 102 Burnside Research Laboratory, 333-1874.

Iqbal S. Bhandal, India, and Yong-quan Guan, China, arrived at UIUC in August, to work with Jack M. Widholm, Agronomy, on plant physiology and genetic engineering.

William da Silva, Department of Genetics and Evolution of the University of Campinas, Brazil, and John Sfakianakis, Greece, are visiting scholars in the Maize Breeding and Genetics Laboratory of the Agronomy Department. Dr. da Silva's office is S-108 Turner Hall, 333-4255.

Omar Yousbaschi, Department of Animal Production, Tishreen University, Lattakia, Syria, will be at UIUC from mid-October to mid-December working with Paul C. Harrison, Animal Science, on poultry physiology.

Kazumo Hoshida, professor of biology, Yamaguchi University, Japan, is taking his sabbatical leave at UIUC to work with Kenneth S. Todd, Veterinary Pathobiology, on gregarine parasites of invertebrates. Dr. Hoshida arrived at UIUC in August and will be here through June 1985.

Rasool Bakhsh, Department of Agricultural Chemistry, Northwest Frontier Province Agricultural University, Peshawar, Pakistan, arrived at UIUC on September 14 for a

sixteen-week nondegree program in biochemistry, nutrition, and laboratory management.

WORLD FOOD DAY ACTIVITIES

World Food Day has been observed since 1981 on the anniversary of the establishment of the Food and Agriculture Organization (FAO) of the United Nations. Its purpose is to increase public awareness of world food problems.

October 16 "Focus 580" WILL radio call-in show, 10:00 to 11:00 a.m. WILL's David Inge, Earl D. Kellogg, Office of International Agriculture, and Pratap Kotamraju, visiting professor, will discuss with listeners world food problems.

October 16 Satellite teleconference of a "National Town Meeting" on the global food situation will be broadcast from Washington, D.C., to Illini Union Room C and other U.S. universities from 11:00 a.m. to 2:00 p.m. Panelists include John Block, U.S. Secretary of Agriculture, Madame 'N'Alineo Tau, ambassador from Lesotho, Ruth Finney, FAO, Clifton Wharton, Chancellor of the State University of New York, Father William Byron, founder of Bread for the World, and Eddie Albert, moderator. For participation information contact Carolyn M. Pribble, Office of International Agriculture, 113 Mumford Hall, 333-6337.

October 16 7:00 to 9:00 p.m., Levis Faculty Center, panel discussion on world hunger and what to do about it sponsored by the International Colloquium.

October 17 International Agriculture Seminar, 4:00 p.m., 426 Mumford Hall. World Food Needs and U.S. Policies: A Third World View - Pratap Kotamraju, Visiting Professor and former ambassador from India to Tunisia.

October 18 noon to 1:00 p.m., Paar Lounge, YMCA, film entitled "Maragoli: Voices from Africa," sponsored by the Office of Women in Development.

October 18 3:00 p.m. in room 180
Bevier Hall, W. N. Thompson retirement
lecture by Lowell Hardin on the role
of U.S. universities in international
agricultural development.

SEMINARS

October 3 Ten Years of Title XII:
Assessing the Past and Charting the
Future - C. Jean Weidemann, Chief,
Institutional and Human Resources
Division, Board for International Food
and Agricultural Development (BIFAD),
Washington, D.C.
4:00 p.m., 426 Mumford Hall.
(International Agriculture Seminar)

October 5 Land Reform in Central
America: Effects on Economic
Development - John Strasma, Land Tenure
Center, University of Wisconsin.
11:45 a.m., YMCA Latzer Hall, 1001
South Wright Street, Champaign.
(YMCA Friday Noon Forum Series)

October 5 Economics of Land Reform
- John Strasma, Land Tenure Center,
University of Wisconsin.
2:30 to 4:40 p.m., 243 Commerce West.
(workshop sponsored by the Department
of Economics and the Department of
Agricultural Economics)

October 10 Integrating Food and Energy
Systems - Donald L. Day and Errol
D. Rodda, Agricultural Engineering,
and Marvin P. Steinberg, Food Science.
4:00 p.m., 422 Mumford Hall.
(International Agriculture seminar)

October 17 World Food Needs and U.S.
Policies: A Third World View - Pratap
Kotamraju, Visiting Professor and
former ambassador from India to
Tunisia.
4:00 p.m., 426 Mumford Hall.
(International Agriculture seminar)

October 24 Agriculture in Kampuchea
- Emerson D. Nafziger, Agronomy.
4:00 p.m., 426 Mumford Hall.
(International Agriculture seminar)

October 31 Biotechnology in France
- Robert M. Skirvin, Horticulture.
4:00 p.m., 426 Mumford Hall.
(International Agriculture seminar)

November 7 Midwest Universities
Consortium for International Activities
(MUCIA): What It Is and How It Works
- T. John Kim, Office of International
Programs and Studies.
4:00 p.m., 426 Mumford Hall.
(International Agriculture seminar)

November 14 Developing Effective
Teaching Strategies for Zambian
Extension - John B. Claar, Office of
International Agriculture; Delbert
T. Dahl, Agricultural Communications;
Violet M. Malone, Extension Education.
4:00 p.m., 426 Mumford Hall.
(International Agriculture seminar)

November 28 International
Agriculture/International Programs
- James R. Millar, Associate Vice
Chancellor for Academic Affairs and
Director of International Programs
and Studies.
4:00 p.m., 426 Mumford Hall.
(International Agriculture seminar)

VISITORS COMING TO CAMPUS

A Japanese Soybean Study Team will
attend a seminar presented by Royce
A. Hinton, Lowell D. Hill, and Darrel
L. Good, Agricultural Economics, Robert
W. Howell, Agronomy, Harold
E. Kauffman, INTSOY, and John W.
Santas, Office of International
Agriculture, October 4. Sponsored
by the American Soybean Association,
the study team is escorted by Jack
Yamashita, ASA/Tokyo.

J. Michael Thresh, plant pathologist
at the East Malling Research Station,
Maidstone, Kent, England, will meet
with the Pest and Weather Group of
the Illinois Natural History Survey
and the Illinois State Water Survey
on October 15. His schedule is being
arranged by Michael E. Irwin, Economic

Entomology and Agricultural Entomology,
172 Natural Resources Bldg., 333-1963.

A People's Republic of China

Agricultural Colleges Instructional Planning and Management Delegation

will visit the College of Agriculture
from October 22 to 26 as part of a
U.S. tour to view instructional
teaching programs. Their trip is
sponsored by IDEALS (Institute of
International Development and Education
in Agriculture and Life Sciences),
Beltsville, MD.

VISITORS RECENTLY ON CAMPUS

Recent visitors with the Agronomy Maize
Breeding Group include: Jean-Paul
Fevre, Rustica Bio-Recherches, Domaine
de Manaut, France, August 8; Mario
D. Cela, Morgan de Santa Ursula S.A.,
Buenos Aires, Argentina, August 25;
O. Doelstra, Foundation for Plant
Breeding, Wageningen, Netherlands,
August 30 and 31; Drs. Genov and Mitov,
Maize Research Institute, Kreja,
Bulgaria, September 4 to 8.
Visitors to the College of Agriculture
and the Illinois Natural History Survey
after the World Soybean Research

Conference III, Ames, Iowa, August
12 to 17 include: Osman A. A. Ageeb,
Gezira Research Station, Wad Medani,
Sudan; Emilio Rizzo Bonato and Amelio
Dall'Agnol, Centro Nacional de Pesquisa
de Soja, EMBRAPA, Brazil; William E.
Collett and George Hutchison,
Commercial Farmers Union, Harare,
Zimbabwe; Franke Dijkstra and Harry
H. van der Vliet, F. T. Pesquisa e
Sementes, Ponta Grossa, Brazil; Joke
Dinakin, National Cereals Research
Institute, Ibadan, Nigeria; Louis
Jackai, entomologist with the
International Institute of Tropical
Agriculture, Ibadan, Nigeria; Jiang
Xingcun, Institute of Genetics,
Academia Sinica, Beijing, China; Nguyen
Dong Khoi, Institute of Biology,
National Center of Scientific Research,
Hanoi, Vietnam; Clive Levy, Department

of Crop Science, University of
Zimbabwe, Harare; Sergio R. Marquez-
Berber, Mexico; Peter O. Oyekun,
International Institute of Tropical
Agriculture, Ibadan, Nigeria;
R. K. Pandey, International Institute
of Tropical Agriculture scientist
stationed at the International Rice
Research Institute, Manila,
Philippines, S. T. Sanogho, soil
microbiologist, ZAMARE Project, Lusaka,
Zambia; Chandra B. Singh,
J. N. Agricultural University,
Jabalpur, India; M. D. Tedia, Director,
M.P. State Oilseed Growers Cooperative
Federation, Bhopal, India;
J. R. Tattersfield, Head of Research
and soybean breeder at the Seed Company
of Zimbabwe, Harare; Tran Tuong Tuan,
Director, Beans Research Center,
University of Cantho, Vietnam; Nelson
R. Vasquez F., Centro Nacional de
Tecnologia Agricola, San Salvador,
El Salvador; Wang Jinling, Northeast
Agricultural College, Harbin, China;
Ren-tse Wang, Director of Research,
Paolita Company, Taipei, Taiwan; Wang
Yumin, Du Weinang, and Wang Lianzheng,
Heilongjiang Academy of Agricultural
Sciences, Harbin, China; Jose Tadashi
Yorinori, plant pathologist at the
National Soybean Center, Londrina,
Brazil; Herbert Zurita O., Centro de
Investigacion Agricola Tropical, Santa
Cruz, Bolivia.

Mr. Liu and Mr. Yao discussed corn
research with L. Fred Welch and met
with College of Agriculture Dean John
R. Campbell on August 22 as part of
a Liaoning, China, delegation visit
to the State of Illinois and UIUC.
Their program was arranged by Robert
E. Brown, Office of International
Programs and Studies. Governor James
Thompson recently signed a "Sister
State/Province" agreement with Liaoning
Province and plans to open a permanent
Illinois trade office in Liaoning.

Masuro Yamaguchi, University of Osaka
Prefecture, Kikuo Kumazawa, Yoshiharu
Maruyama, and Yasuhiro Arima, Tokyo
University, and Takuji Ohyama, Niigata

University, Japan, discussed symbiotic nitrogen fixation of soybeans with James E. Harper, USDA/Agronomy, and Richard H. Hageman and Bruce L. Vasilas, Agronomy, from August 27 to 29. Their visit was part of a US-Japan cooperative science program exchange.

Nine research scientists from the China Academy of Railway Science, Beijing, visited the wood science research facilities of the Forestry Department and the College of Engineering on August 30. They were guests of the Association of American Railroad (AAR) and were accompanied by Al Reinschmidt, Technical Director of AAR, and Ernest J. Barenberg, Department of Civil Engineering at UIUC.

Ph. Gouet, Director of the Microbiology Laboratory, and G. Fonty, Center for Animal Husbandry and Veterinary Research, INRA, Thieux, France, visited the Microbiology Division of Dairy Science on September 3 and 4.

Dan Ben-Ghedalia, The Volcani Center, Institute of Animal Sciences, Bet Dagan, Israel, met with faculty in Dairy Science and presented a special seminar entitled "Research in the Field of Lignocelluloses in Israel," September 4 and 5.

Peter Buttery and Chris Bartram, Department of Applied Biochemistry and Food Science, School of Agriculture, University of Nottingham, England, met with Jimmy H. Clark, Dairy Science, on September 17.

Kalle Hemmi and Ilmo Aronen, Raisio Factories, Finland, met with Jimmy H. Clark, Michael J. Hutjens, and Gene C. McCoy, Dairy Science, Sept. 19.

Wieslaw Barej, Department of Animal Physiology, Agricultural University of Warsaw, Poland, visited Veterinary Medicine and Agriculture on September 5 and 6. He met with Larry L. Berger, and Peter J. Bechtel, Animal Science,

Jimmy H. Clark, Dairy Science, John A. Milner, Food Science, John W. Santas, Office of International Agriculture, and Borje K. Gustafsson, A. G. Schiller, and Howard L. Whitmore, Veterinary Clinical Medicine.

Albrecht Kistner, National Chemical Research Laboratory, Pretoria, South Africa, met with Dairy Science faculty and presented a seminar on growth and metabolism of insoluble cellulose and plant cell walls by rumen cellulolytic bacteria grown in continuous culture, September 7.

Anthony Gbani, Agronomy Department, University of Sierra Leone, Njala College of Agriculture, spent September 10 to 14 in the Agronomy Department involved in a program on experimental design and data analysis. The program was arranged by Robert D. Seif. Dr. Gbani completed his M.S. degree in Agronomy at UIUC in 1972.

Kyung Lee, Director for the American Soybean Association/Korea, Young Shin Kim, Yun Hap News Agency, Young Hyun Kang, Korea Economic Daily, and Jun Ryun Wang, Korea Food Development Center, visited UIUC on September 11 in a program arranged by the American Soybean Association. They attended lectures and product demonstrations on soybean nutrition and utilization presented by Lun-Shin Wei, Patricia V. Johnston, Sing-Wood Yeh, and Wilmot Wijeratne, Food Science.

William W. Roath, USDA/ARS North Dakota State University, Fargo, recently completed a two-year assignment on the ZAMARE (Zambian Agricultural Research and Extension) project as sunflower agronomist stationed at the Mt. Makulu Central Research Station. Dr. Roath visited UIUC on September 12 and presented a seminar on the project.

Mohamed M. Abdallah, Professor of Agronomy, Assiut University, Egypt, met with Joseph A. Jackobs, Agronomy,

Alvin I. Nelson, Food Science, and Harold E. Kauffman, INTSOY, on September 13 and 14. Professor Abdallah's trip was sponsored by USAID through the New Mexico State University Major Cereals Improvement Project.

Zheng Zhi Shan, State Forestry College, Zhejiang University, China, discussed new developments in wood and forest science with Poo Chow and other Forestry faculty, September 19.

Rodney Mackie, Animal and Dairy Science Research Institute, Pretoria, South Africa, visited UIUC and presented a seminar on nitrogen metabolism in the rumen, September 21.

Ye Zhenye, Vice President, and Fu Danru, Chairman of Agronomy, Sichuan Agricultural College, China, met with Edwin L. Goldwasser, Vice-Chancellor for Academic Affairs, John R. Campbell, Dean of the College of

Agriculture, and Earl D. Kellogg and Harold E. Kauffman, Office of International Agriculture, to discuss exchange agreements between Sichuan Agricultural College and UIUC's College of Agriculture, September 24. They also viewed maize production research at the Agronomy-Plant Pathology South Farm with Emerson D. Nafziger, and toured the swine research facilities with Leif H. Thompson and Robert A. Easter, Animal Science.

LANGUAGE SKILLS SURVEY

A short questionnaire on your language skills in French and Spanish will be sent to you during October. The survey is being prepared by the Title XII Office to ascertain language needs by faculty and staff interested in international development work. We appreciate your cooperation in filling out this questionnaire.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, University of Illinois at Urbana-Champaign, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. Contact the Office of International Agriculture to receive your own copy of this Newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN

November 1984, No. 78

INTERNATIONAL ACTIVITIES

Rabel J. Burdge, Institute for Environmental Studies and the Department of Agricultural Economics, was a Resident Professor in the Department of Western Sociology at the Agricultural University, Wageningen, the Netherlands, from May through August 1984. He taught two courses in environmental sociology and participated in joint research on the impact of recreation resource development.

Dean Richard E. Dierks, Veterinary Medicine, and Miodrag Ristic, Veterinary Pathobiology, attended the official opening of the Laveran International Foundation, Annecy, France, September 7. The purpose of the Foundation is to contribute to research, training, and distribution of information on the prevention and control of malaria and babesiosis. Dean Dierks was named to the Board of Directors and Dr. Ristic was appointed Vice President of the Foundation. A second office of the Foundation will be established in Urbana under the direction of Dr. Ristic.

Zarina M. Hock and Sheila A. Ryan, Agricultural Publications, participated in the joint international meeting of the Council of Biology Editors and the European Association of Science

Editors held at Trinity College, Cambridge, England, September 8 to 13. Dr. Hock organized and chaired a workshop on English as the language of science in developing countries.

Janice M. Bahr, Animal Science, presented an invited seminar on reproductive physiology of the domestic hen to representatives from the International Minerals and Chemicals Company, Terre Haute, Indiana, on September 13.

Frederick C. Fliegel, Agricultural Economics, assisted USAID in conducting an agricultural sector assessment in Belize, September 17 to October 1.

Alan I. Brightman, Susan A. McLaughlin, and Lloyd C. Helper, Veterinary Clinical Medicine, attended a meeting of the International Society of Veterinary Ophthalmologists on September 19 in Hamburg, West Germany. Dr. Brightman and Dr. McLaughlin presented papers. The meeting was held in conjunction with the World Small Animal Association Meeting.

Dr. Helper also attended and presented two papers at the Cataract Symposium, September 28, in Toulouse, France.

Jack E. Harlan, Agronomy emeritus, presented a paper entitled "Problems of Merging Populations and Counterfeit Hybrids" at a conference on

Intraspecific Variation at the University of Oxford, England, September 26 to 28. He then went to Sweden to deliver the Nilsson-Ehle lecture for 1984 at the University of Lund and a seminar at Svalov. The Nilsson-Ehle lecture was entitled "Some Questions About Fertilization Biology in Higher Plants" and the seminar was on the origin of maize. Dr. Harlan also reviewed the work of the Nordic Gene Bank in Sweden, Norway, and Finland.

Jack D. Paxton, Plant Pathology, presented invited lectures at the University of Gottingen, Germany, and met with researchers at the University of Zurich, Switzerland, and The Agricultural University, Wageningen, Netherlands, October 7 to 25.

Earl R. Swanson, Agricultural Economics, is a visiting professor in the Department of Economics and Statistics of the Swedish University of Agricultural Sciences, Uppsala, October 8 to December 21.

Mary A. Keith, Foods and Nutrition, spoke on world food problems at the Fairbury, Illinois, Presbyterian Church, on October 14.

Nicanor Liquido, William G. Ruesink, William O. Lamp, and Michael E. Irwin, Agricultural Entomology and Illinois Natural History Survey, David J. Voegtlin, Faunistics Section of the Illinois Natural History Survey, and L. Keith Hendrie and Robert W. Scott, Illinois State Water Survey, participated in the International Conference on the Movement and Dispersal of Biotic Agents, Baton Rouge, Louisiana, October 17 to 19. Dr. Irwin presented two papers.

Richard E. Sparks, Aquatic Biology Section of the Illinois Natural History Survey, was an invited participant in an international workshop on submersed macrophytes in lotic systems, October 18 to 20, Lake George, New

York. Participants discussed the ecology and management of submersed aquatic plants in rivers and streams.

Sidney L. Spahr, Dairy Science, is participating in a series of mastitis seminars in Japan from October 24 to November 3. He will present reports on trends in mastitis control in the USA and electrical conductivity of milk for detection of intramammary infection at seminars in Sapporo, Tokyo, and Fukuoka. The seminars are sponsored by the Eisai Co., National Association for Improvement of Milk Quality, National Agricultural Insurance Association, and Japan Veterinary Medical Association.

Roger R. Yoerger, Agricultural Engineering, will participate in the First Pan-American Conference on Agricultural Engineering, October 28 to November 2, Caracas, Venezuela.

SEMINARS

November 7 Midwest Universities Consortium for International Activities (MUCIA): What It Is and How It Works - T. John Kim, Office of International Programs and Studies.
4:00 p.m., 426 Mumford Hall.
(International Agriculture seminar)

November 14 Developing Effective Teaching Strategies for Zambian Extension - John B. Claar, Office of International Agriculture; Delbert T. Dahl, Agricultural Communications; Violet M. Malone, Extension Education.
4:00 p.m., 426 Mumford Hall.
(International Agriculture seminar)

November 28 International Agriculture/International Programs - James R. Millar, Associate Vice Chancellor for Academic Affairs and Director of International Programs and Studies.
4:00 p.m., 426 Mumford Hall.
(International Agriculture seminar)

VISITORS RECENTLY ON CAMPUS

Norio Murato, Tokyo University, Japan, visited the laboratory of Constantin A. Rebeiz, Horticulture, August 28.

Arvind Singh arrived in Illinois on September 19 as a participant from India in the International 4-H Youth Exchange Program. He met with Ann Rund, Mary K. Munson, and Gerald G. Gast, 4-H; Robert P. Bentz, Cooperative Extension Service; Thomas A. McCowen, International Agriculture; Emerson D. Nafziger, Agronomy; Sheldon W. Williams, Agricultural Economics emeritus; and Gary E. Ricketts, Animal Science. Mr. Singh will be staying with 4-H host families throughout the state until December 15.

Herman Heege, Department of Agricultural Engineering, University of Keil, Germany, discussed developments in livestock mechanization with Hoyle B. Puckett, USDA and Agricultural Engineering, on September 24.

A group of 33 Argentine farmers and farm equipment dealers visited campus on September 26. They spent two hours in a question and answer session on farm machinery and tillage equipment with John C. Siemens, Agricultural Engineering.

Manuel Alegre de Melo Duarte, member of Parliament, and Jose Carlos Vasconcelos, editor of "O Jornal," Portugal, discussed issues related to Portugal's involvement in the European Economic Community with Stephen C. Schmidt, Agricultural Economics, September 27. They were accompanied by Ken Comer of Casey, Illinois, and a U.S. State Department escort. Their trip was sponsored by the USIA (U.S. Information Agency) and arranged by the Visitor Program Service of Meridian House International, Washington, D.C.

Twenty Argentine farmers visited UIUC following the Farm Progress Show on

September 27. They met with Royce A. Hinton, Agricultural Economics, M. Gene Oldham and Marshal D. McGlamery, Agronomy, and John C. Siemens, Agricultural Engineering.

G.v.d. Waay, Stichting Koppeling Melkcontrole- Veewoeding; S. de Jong, dairy specialist; G. Wissink and A. Ensing, forage laboratory directors; and N. Benedictus, National Government Advisory Officer, the Netherlands, met with Sidney L. Spahr, Gerhard W. Harpestad, and Michael F. Hutjens, Dairy Science, Hoyle B. Puckett, USDA/Agricultural Engineering, and Nelson L. Buck, Agricultural Engineering, September 27. Their visit, originally scheduled for July 5, was arranged by Dr. Hutjens.

David G. Rudderforth, Hector Celano, Ramon Zorraquin, Jose Carlino Juninsho, Cristian Ferreyra, Juan Carlos Morales, and Ernesto Liesezarro, farm managers and equipment dealers from Argentina, visited the INTSOY program and Illinois Foundation Seeds, Inc., September 27.

Abdullah M. Nassib, Head of Food Legume Research, Field Crops Institute, and M. Nabil A.L.A.A. El-Din, Chief of Soil Microbiology, Institute of Soils and Water Research, Giza, Egypt, visited the Farm Progress Show on September 27 and the College of Agriculture on September 28. They met with Joseph A. Jackobs, Agronomy, James B. Sinclair, Plant Pathology, Michael E. Irwin, Agricultural Entomology and Illinois Natural History Survey, Sing Wood Yeh, Food Science, and Randy Stover, Urbana Laboratories.

Rodrigo Gamez, Cellular and Molecular Biology Research Center at the University of Costa Rica, San Jose, and Costa Rica's representative to the Organization of American States (OAS) and the Nature Conservancy, visited UIUC and the Illinois Natural History Survey from October 1 to 4. Dr. Gamez presented a seminar on Costa Rica's natural areas and access to

them as research sites. His schedule was arranged by Michael E. Irwin, Agricultural Entomology and Economic Entomology.

Michel Desmars, Associate Head, Energy Mission, Ministry of Agriculture, France, discussed small scale production of fuel alcohol with Errol D. Rodda, Agricultural Engineering, on October 2.

Xiao Jiajie, Food Fermentation Institute, Lei Bojun and Xu Bao, Soybean Institute, Ma Xiyuan, Cereal Institute, Yu Shouyang, Harbin Medical College, Xue Zhongtian, Plant Physiology Institute, Liu Changjiang, Heilongjiang Food Industry Corporation, Pan Qi, China Association of Science and Technology, and Shao Qiquan, China Genetics Society, China, visited UIUC on October 8. They met with Harold E. Kauffman, INTSOY, Lun-Shin Wei, Food Science, and Theodore Hymowitz, Agronomy.

Ejaz Rahim, Ghulam Dastgir Akhter, Mir Laiq Shah, Syed Asif Shah, Habib Ullah Khan, and Mahmood Khan, Northwest Frontier Province, Pakistan, visited UIUC on October 8 and 9, sponsored by the U.S. Department of State Narcotics Reduction Board. They met with William N. Thompson and Thomas A. McCowen, International Agriculture, Philip Garcia and Susan E. Offutt, Agricultural Economics, Harold E. Kauffman, INTSOY, Joseph A. Jackobs, Emerson D. Nafziger, and D. E. Alexander, Agronomy, James A. Smith, oil seed processing consultant, Marvin G. Weinbaum and Stephen C. Cohen, South Asia Program, J. B. Claar, INTERPAKS, and William T. McNamara, Cooperative Extension Service.

INTERNATIONAL ADVISORY COMMITTEE

The International Agriculture Advisory Committee will meet at UIUC on November 28. Committee members are: Richard Feltes, Director of Crop Research,

Continental Grain Company, Chicago; William Fugate, farmer, Fairbury; Bruce L. Kirkpatrick, Abbott Laboratories, Long Grove; Phyllis McPherron, Clinical Coordinator for the Community Health Improvement Center, Decatur; Lyle G. Reeser, agricultural consultant, Peoria; Willard Severns, farmer, Moweaqua; James M. Spata, food scientist, Montgomery, Ohio; Wilbert Stevenson, farmer, Streator; and Richard A. Vogen, Illinois Department of Agriculture, Springfield.

INTERPAKS SHORT COURSE

In mid-October participants received certificates for completing the extension short course sponsored by INTERPAKS. Seven people attended the course entitled "Organization and Operation of Agriculture Extension Services in the International Setting": Nityananda Trivedi, Joint Director of Agriculture, India; Carlos Schlottfeldt, special advisor to the President of the Brazilian national extension system; Paulo Ebling Rodrigues, Technical Director of the Subsidiary in the state of Rio Grande do Sul, Brazil; Abbas Sesay, Acting Assistant Chief Agriculturist of the government of Sri Lanka; Vijay Nath, Ministry of Primary Industries, Fiji; and Laurien Ngirabanzi, Director of the Integrated Rural Development Project, Rwanda.

Held at UIUC from September 17 to October 19, the course was coordinated by J. B. Claar, Director of INTERPAKS. Faculty from INTERPAKS, cooperative extension, and other units in the College of Agriculture served as instructors. During the short course participants visited the Farm Progress Show, extension offices and farmers in Effingham County, the Stuttgart Research and Extension Center in Arkansas, the Tennessee Valley Authority Research Center at Muscle Shoals, Alabama, and the Alabama Cooperative Extension Service International Center for Aquaculture.

OFFICE LOCATIONS FOR INT. AGR. STAFF

We are moving around and the dust hasn't settled yet. The mailing address for everyone in the Office of International Agriculture is 113 Mumford Hall, 1301 West Gregory Drive, Urbana, IL 61801. However, offices are located at:

Mumford Hall

Lynn Blakeney, Secretary, Training and Visitors, 438 Mumford Hall, 333-3638.

Dee Buchanan, Secretary, OIA, 438 Mumford Hall, 333-6337.

Diana K. Glasgow, Accountant, OIA, 434 Mumford Hall, 333-4350.

Judy A. Hansens, Secretary, INTSOY, 434 Mumford Hall, 333-6422.

Harold E. Kauffman, Director, INTSOY, 434a Mumford Hall, 333-6422.

Earl D. Kellogg, Associate Director, OIA, 440 Mumford Hall, 333-6337.

Thomas A. McCowen, Assistant Director, OIA and INTSOY, 113 Mumford Hall, 333-6421.

Carolyn M. Pribble, International Agriculture Development Specialist, OIA, 436 Mumford Hall, 333-6337.

John W. Santas, Assistant Director, Training and Visitors, OIA, 438 Mumford Hall, 333-3638.

Deanna Taeger, Secretary, OIA, 113 Mumford Hall, 333-6420.

Agricultural Engineering Building

J. B. Claar, Director, INTERPAKS, 241 Agr. Eng. Bldg., 333-5831.

Kathleen Cloud, Research Associate, INTERPAKS, 228 Agr. Eng. Bldg., 333-5832.

Jeanne C. Hoefling, Secretary, INTERPAKS, 245 Agr. Eng. Bldg., 333-5837.

Bonnie J. Irwin, Librarian/Publications, OIA, 246 Agr. Eng. Bldg., 333-5835.

Barbara E. Jauhola, Secretary, INTERPAKS, 245 Agr. Eng. Bldg., 333-5837.

Jane S. Johnson, Information Specialist, INTERPAKS, 242 Agr. Eng. Bldg., 333-5836.

Timothy Koehnen, graduate student, INTERPAKS, 226 Agr. Eng. Bldg., 333-5838.

Karen Russon, TIPAN project, 104 Agr. Eng. Bldg., 333-5868.

Carolyn Sands, graduate student, INTERPAKS, 237 Agr. Eng. Bldg., 333-5838.

Burton E. Swanson, Associate Director, INTERPAKS, 230 Agr. Eng. Bldg., 333-5834.

William N. Thompson, Senior Adviser, TIPAN project, 107 Agr. Eng. Bldg., 333-5869.

JAMAICA SCHOOL OF AGRICULTURE PROJECT

UIUC, through the Division of Agricultural Education and the Office of International Agriculture, plans to submit a proposal with Purdue University and Florida A&M University for the Jamaica Agricultural Education Project. This four-year institution building project will require short-term faculty assignments in agricultural engineering, agricultural economics, agronomy, animal science, agricultural extension, and integrated pest management, as well as in support areas such as college administration, library development, curriculum development, and evaluation. Faculty interested in this USAID-sponsored project should contact Leon A. Mayer, 355 Education Building, 333-2775, or Burton E. Swanson, 113 Mumford Hall, 333-5834.

NEW SOYBEAN PUBLICATIONS AVAILABLE

"International Directory of Soybean Entomologists" is organized by country and provides names, addresses, and areas of specialization.

"A Bibliography of Three Lepidopterous Pod Borers - Etiella zinckenella, Leguminivora glycinivorella, and Matsumuraesia phaseoli - Associated with Soybean and Other Legumes" was compiled by Yaliam Qu and Jenny Kogan.

Single copies of these publications are available free of charge from the Soybean Insect Research Information Center (SIRIC), 172 Natural Resources Building, 607 East Peabody Drive, Champaign, IL 61820, 333-6784.

IOWA-ILLINOIS WORLD FOOD CONFERENCE

The Iowa-Illinois World Food Conference: Third World Development, From Food Deficiency to Food Sufficiency will be held at the Blackhawk Hotel, Davenport, Iowa, on November 9 and 10. The conference is open to the public.

Sessions will cover: food aid as an instrument of development; the need for developing countries to provide economic incentives for their farmers; methods for reducing third world dependency on foreign oil; the role of women in development; the blending of development and humanitarian goals; and a workshop on influencing public policy on developmental issues.

For registration details contact the Office of Continuing Education in International Affairs, 205 Arcade Bldg., 725 South Wright Street, Champaign, IL 61820, 333-1465.

WID FILM

November 15 "3900 Million and One." Set is rural southern India, the film examines population and food problems faced by individuals and the government.

Noon, Paar Lounge, YMCA, 1001 South Wright Street, Champaign.

MEMORANDUM WITH HUNGARY

UIUC recently signed a Memorandum of Understanding with the Central Food Research Institute, Budapest, Hungary, to cooperate on soyfood research. Harold E. Kauffman, INTSOY Director, 113 Mumford Hall, 333-6422, will serve as campus liaison officer.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. Contact the Office of International Agriculture to receive your own copy of this Newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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December 1984, No.79

INTERNATIONAL ACTIVITIES

Eun Woo Park, recent Ph.D. in Plant Pathology, is now Assistant Professor in the Department of Agricultural Biology, Seoul National University, Suweon, Korea.

Daniel Gianola, Animal Science, was recently elected Honorary President of the Association pour l'Analyse des Caracteres Descretres (ANCADI), an international organization concerned with the analysis of categorical data in animal genetics. ANCADI is based in Toulouse, France.

Mahmood A. Khan, Foods and Nutrition, was a U.S. delegate to the International Conference on Catering Technology and Catering Systems held during September in Harrogate, England. Dr. Khan gave an invited paper on the use of infrared processing in food service systems and was a speaker in a forum on future developments in the food service industry.

Janice M. Bahr, Animal Science, spent September 21 to October 20 at the Poultry Research Centre, Edinburgh, Scotland, establishing a laboratory technique on receptor assays for avian pituitary hormones. While in Europe, Dr. Bahr presented an invited lecture on reproduction in the domestic hen at the Institute of Animal Husbandry and Animal Behavior at Mariensee, and visited the Institute of Poultry Research in Celle, Germany.

Scott R. Robinson, Wildlife Research Section of the Illinois Natural History Survey, spent two months this summer in Manu National Park, located in the Amazon basin in southeastern Peru, taking a census of the birds and studying the role of interspecific aggression in habitat selection. The research was funded through a National Science Foundation grant to Princeton University.

Peter B. Bayley, Aquatic Biology Section of the Illinois Natural History Survey, participated in an evaluation of the aquatic environment and fisheries of Paraguay from October 22 to November 3. The evaluation will form a part of an environmental profile of the country being prepared by the International Institute of Environment and Development (IIED) through a grant from USAID.

Marcos Kogan, Illinois Natural History Survey and Agricultural Entomology, presented an invited paper entitled "Plant Defense Strategies and Host Plant Resistance" at the 40th Annual Meeting of the Entomological Society of Manitoba, Canada, Nov. 9 and 10.

Burton E. Swanson, INTERPAKS, has been appointed to the Steering Committee on Agricultural Education and University Building for Africa. This committee, which held its first meeting in Washington, D.C., on November 8, will advise USAID on major new programs and priorities to

strengthen agricultural education institutions in Africa.

Dr. Swanson, Chair, Association for International Agricultural Education, will preside over the semi-annual meeting of the Association in New Orleans, LA, on December 4.

John W. Santas and Lynn Blakeney, Office of International Agriculture, attended a conference for staff of universities and other organizations that carry out training programs under contracts with USAID. Organized by USAID's Office of International Training, the conference was held in Washington, D.C., on Nov. 1 and 2.

Stanley E. Curtis, Animal Science, spoke about swine environment and behavior at the Saskatchewan Swine Symposium, Canada, November 7.

Fred A. Kummerow, Food Science, spent one month at the East German Academy of Sciences as a participant in the National Research Council Visitor Exchange Program. While in Europe Dr. Kummerow attended the IV International Colloquium of Lipid Metabolism and Its Pathology, where he presented a paper on the relationship of oxidized lipids to atherosclerosis, November 17 to 25, Lisbon, Portugal.

Donald E. Kuhlman and John K. Bouseman, Agricultural Entomology and the Section of Economic Entomology of the Illinois Natural History Survey, are in Zambia from mid-November to mid-December to complete the second phase of entomology consulting on the ZAMARE project. They are working with personnel in the Zambia Ministry of Agriculture and Water Development and the ZAMARE project on insect pests at planting time in the Central Province.

Jack M. Widholm, Agronomy, was an invited speaker at the First Kyoto Symposium on Bioscience: Prospects in Plant Cell Science and Technology,

Kyoto, Japan, November 19 to 21. He presented a paper on crop improvement through tissue culture selection.

Harold E. Kauffman, INTSOY, attended the International Agricultural Centers' Meeting of the Consultative Group for International Agricultural Research (CGIAR), Washington, D.C., November 5 to 7.

From November 13 to 16, Dr. Kauffman discussed collaborative INTSOY programs in Colombia with staff at CIAT (Centro Internacional de Agricultura Tropical) and ICA (Instituto Colombiano Agropecuario), Palmira, Colombia.

Thomas A. McCowen and John W. Santas, International Agriculture, traveled to Pakistan in late November to coordinate programmatic and logistic aspects of the TIPAN (Transformation and Integration of the Provincial Agricultural Network) project.

On the trip home, Dr. Santas discussed soybean training and conferences with Agricultural Research Institute staff, Antalya, Turkey, and FAO/INTSOY activities with FAO staff in Rome, Italy.

Donald L. Day, Agricultural Engineering, presented a paper entitled "Biogas from Biomass in Kenya" at the International Conference on Biogas Transfer and Diffusion, Cairo, Egypt, in mid-November. Sponsored by the Egyptian Academy of Scientific Research and Technology, the Egyptian National Research Center, USAID, and the National Academy of Sciences, the conference addressed alternative energy needs for developing countries. While in Egypt, Dr. Day met with research collaborators at the Agricultural Research Center, Giza. Dr. Day then traveled to Kenya to plan laboratory and field research that will produce alternative sources of energy for Kenyan agriculture. Dr. Day, along with Egyptian and Kenyan scientists, is participating in a USAID-sponsored project on

biological conversion of biomass into fuel, feed, and fertilizer for developing countries.

Finally, Dr. Day visited Israel to coordinate a US-Israel Binational Agriculture Research and Development (BARD) proposal on microbial and electrochemical methods to renovate agricultural wastewater. Marvin P. Steinberg, Food Science, is co-investigator on all these projects.

Earl D. Kellogg, International Agriculture, is in Zambia from November 27 to December 21 to meet with team members of the ZAMARE (Zambian Agricultural Research and Extension) project, and prepare for the mid-project review in 1985.

Glen L. Hartman, graduate student in Plant Pathology, will conduct thesis research on Pyrenochaeta leafspot of soybeans at the Mt. Makulu Central Research Station, Zambia, beginning December 9. He is sponsored under the special studies program of the ZAMARE project.

Sam H. Johnson, Agricultural Economics, will attend the Farming Systems Support Project Technical Advisory Committee Meeting in Washington, D.C., December 16 and 17, and will meet with staff at USAID and the World Bank to discuss on-going research programs.

Dr. Johnson will participate in a meeting of the International Committee of the American Agricultural Economics Association during the Association's annual meetings, December 28 to 30, Dallas, Texas.

FULBRIGHT SEMINARS ON SOUTH AMERICA

February 1, 1985, is the application deadline for 1985 Fulbright Summer Seminars on "South America Today." The Fulbright Commissions in Argentina, Brazil, Colombia, Ecuador, Peru, and Uruguay, and the USIA Post in Bolivia, are sponsoring two 45-day

(July 1 to August 14, 1985) seminars on "South America Today" for 20 U.S. professors of Latin American studies. Seminar I participants will visit Argentina, Bolivia, Ecuador, and Colombia, and Seminar II participants will visit Brazil, Peru, and Uruguay. Spanish- and Portuguese-language comprehension is required. For information and application forms contact the Council for International Exchange of Scholars, Suite 300, 11 Dupont Circle, Washington, D.C. 20036, telephone (202) 833-4955.

NEW INTERNATIONAL STUDENTS

The College of Agriculture and the College of Veterinary Medicine welcome the following new international graduate students to the University of Illinois at Urbana-Champaign:

EXTENSION EDUCATION

Asmatullah Khan, Pakistan, extension education and vocational and technical education; Naftali Mollel, Tanzania, agricultural extension; Enoch Sikapande, Zambia, general agriculture and crop production; Heather Young, New Zealand, horticulture education.

SUB-SAHARAN COOPERATIVE PROGRAM

January 1 and September 1 are the deadlines for proposals to the National Science Foundation (NSF) for the Sub-Saharan Cooperative Science Program. Activities considered for support include:

- cooperative research projects
- research-oriented workshops, conferences, and seminars
- visits to or from the cooperating country to carry out discrete cooperative research activities
- doctoral dissertation improvement projects

A more detailed program announcement is available from the Office of International Agriculture, 113 Mumford Hall, attention Bonnie Irwin.

VISITORS RECENTLY ON CAMPUS

Edris Bird, Resident Tutor of the University of the West Indies, Antigua, visited UIUC from September 25 to October 1. Dr. Bird discussed continuing education and staff development with Violet M. Malone, Extension Education, and other faculty and students.

N. R. Shalash, Chair of the Department of Animal Reproduction and Artificial Insemination, National Research Centre, Cairo, Egypt, visited Charles N. Graves, Dairy Science, October 6.

A delegation representing the Tianjin Commercial Shrimp Research Center, China, visited the Kinmundy Field Station of the Illinois Natural History Survey from October 16 to 20. Members of the delegation, including Jiang Hui Sheng, Jian Zhang, Yao Chang Hai, Zhang Zhi Ming, and Wu Xiu Lan, discussed commercial production of the freshwater prawn, Macrobrachium rosenbergii, with station researchers.

Klaus Froberg, International Institute for Applied Systems Analysis, Laxenburg, Austria, discussed collaborative research with Stephen C. Schmidt, Agricultural Economics, on October 22. Dr. Froberg also presented a seminar on a world food and agriculture model developed by the Institute.

Roy D. Morey, Chief, Division of Asia and the Pacific, United Nations Development Programme, New York, visited UIUC on November 1 and 2 for a program arranged by Robert E. Brown, Overseas Projects and Foreign Visitors. Dr. Morey met with Frederick M. Wirt, Political Science; Charles O'Morchoe, College of Medicine; Peter Schran, Center for Asian Studies; John A. Shadduck, Veterinary Pathobiology; Borje Gustafsson, Veterinary Clinical Medicine; and Earl D. Kellogg, Burton E. Swanson, and Harold E. Kauffman, Office of International Agriculture.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. Contact the Office of International Agriculture to receive your own copy of this Newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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International Agriculture Newsletter

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January 1985, No. 80

INTERNATIONAL ACTIVITIES

Luis H. Camacho, Agronomy/INTSOY plant breeder stationed in Cali, Colombia, spent three weeks in El Salvador in October as a consultant for the World Food Program on production of basic grains (corn, beans, sorghum, and rice) by small-scale farmers.

Dr. Camacho reviewed a bean/cowpea CRSP project at the Panamerican School of Agriculture, November 21 to 24. The project deals with development of disease resistant bean cultivars for small-scale farmers.

John R. Campbell, Dean of the College of Agriculture, visited India from November 17 to 30 with five other deans of land-grant colleges of agriculture. Invited by the Government of India and co-sponsored by the U.S. Department of State, the delegation visited colleges of agriculture, agricultural research institutes, and the Indian Council for Agricultural Research. Dean Campbell will present a seminar about his trip on February 6 at 4:00 p.m. in room 426 Mumford Hall.

Mohamed A. Mehaia, Food Science, presented a paper on use of food processing and agricultural wastes by fermentation at the First Arab Gulf Conference on Biotechnology and Applied Microbiology, held in Riyadh, Saudi Arabia, November 12 to 15. The paper was co-authored by Munir Cheryan, also in Food Science.

R. William Seiders, State 4-H Office, participated in the first of five Kellogg Foundation/Partners of the Americas Fellowship in International Development seminars, held November 24 to December 2 in the Dominican Republic. Forty Fellows from the United States, Central and South America, and the Caribbean met to study leadership in development.

John M. Gerber, Horticulture, visited commercial greenhouse operations and controlled environment research facilities in England and Holland from November 6 to 15. In Holland he discussed hydroponic vegetable production with scientists at Proefstation in Naaldwijk, and at IMAG, Wageningen. Dr. Gerber also visited the Glasshouse Crops Research Institute in Littlehampton, England, to discuss nutrient management in controlled environment food production systems.

Mary A. Keith, Foods and Nutrition, Donald L. Day, Agricultural Engineering, and Everett Hatfield, Animal Science emeritus, spoke at the Iowa-Illinois World Food Conference: Third World Development, From Food Deficiency to Food Sufficiency, November 9 and 10, Davenport, Iowa. Attending from UIUC were: Ned M. Birkey, Mary Ann Block, Sharon Y. Hart, W. Mike Sager, and Pamela E. Woodard, Cooperative Extension; Harold E. Kauffman and Earl D. Kellogg, Office of International Agriculture; Frances M. Magrabi, Family and

Consumer Economics; Emerson D. Nafziger, Agronomy; Alvin I. Nelson, Food Science; B. Jean Peterson, Human Development and Family Ecology; and students Adenuga O. Atewologun, Nalini Ayya, David Kenny, Richard H. Kodl, Nobumasa Haccho, Jade Kuan, James O'Connor, Timothy Rocke, Susan Ann Rocke, Arbali Sukanal, Mohammad Tariq, and Patrick A. Walson.

Miodrag Ristic, Sonia Montenegro-James, and Pedro Aso, Veterinary Pathobiology, participated in the annual Conference on Hemotropic Diseases of Domestic Animals, held November 26 to 29 at the University of Zulia, Maracaibo, Venezuela.

L. Fred Welch, Agronomy, presented a paper entitled "Identifying Limiting Factors for High Corn Yields" at the Annual Meeting of the Ontario Plant Food Society of Guelph, Ontario, Canada, December 10 to 12.

Agronomy Department students and faculty who attended the North Central Weed Control Conference, Winnipeg, Manitoba, Canada, December 3 to 6, included: Carol Diane Anderson, Thomas H. Beckett, Ellery L. Knake, Mark M. Loux, James L. Lloyd, Marshall D. McGlamery, Randy A. Myers, Michael Orfanedes, David R. Pike, Edward W. Stoller, and Loyd M. Wax.

Stephen C. Schmidt, Agricultural Economics, attended a meeting of the International Trade Research Consortium, held at the Asilomar Conference Center, Pacific Grove, California, December 16 to 20.

Alvin I. Nelson, Lun-Shin Wei, and Wilmot Wijeratne, Food Science, will present lectures and assist in laboratory activities at the Soybean Utilization Workshop in Peradeniya, Sri Lanka, January 14 to 25. The workshop is sponsored by the Sri Lanka Department of Agriculture and INTSOY, in collaboration with UNDP, FAO, UNICEF, CARE, and USAID.

Violet M. Malone, Extension Education, and Donald Smucker, MUCIA Caribbean Agricultural Extension Project, will conduct three two-day workshops for extension staff in Belize from January 4 to 16. The workshops will strengthen the teaching skills of local staff.

Carolyn M. Pribble, Office of International Agriculture, will attend the Development Advisory Team (DAT) Workshop at Iowa State University, Ames, from January 7 to 11.

Harold E. Kauffman, INTSOY, will discuss INTSOY projects with USAID and government officials in India, the Philippines, Sri Lanka, and Thailand from January 9 to 24. While in Sri Lanka he will attend the opening sessions of the Soybean Utilization Workshop.

VISITING RESEARCHERS

Mohamed El-Azab, Zagazig University, Zagazig, Egypt, is studying theriogenology with Howard L. Whitmore, Veterinary Clinical Medicine, from October 1984 through August 1985. Dr. El-Azab is sponsored by the AMIDEAST program.

Nazeer Ahmad, Head of the Department of Soil Science, University of the West Indies, will be in the Agronomy Department for six months beginning in March. Dr. Ahmad will teach a course on the genesis, classification, and management of tropical soils, and will be available to consult with faculty and students.

TROPICAL SOILS COURSE AT UIUC: SPECIAL ANNOUNCEMENT

"Genesis, Classification, and Management of Tropical Soils" (Agronomy 300, two hours credit) will be taught by Nazeer Ahmad, Head of the Department of Soil Science,

University of the West Indies, beginning the week of March 4 (second half of the semester). Dr. Ahmad, who has worldwide experience with tropical soils and agriculture, taught this course at UIUC in 1982.

VISITORS RECENTLY ON CAMPUS

Yong Seop Kim and Yul Chul Choi, National Agricultural Cooperative Federation, Chung Sam Chung, Agriculture and Fishery Development Corporation, and Hyun Ki Baik, Ministry of Agriculture and Fisheries, Korea, discussed soyfoods with Harold E. Kauffman, INTSOY, and Alvin I. Nelson, Lun-Shin Wei, and S. W. Yeh, Food Science, on November 29. Sponsored by the American Soybean Association in cooperation with the Foreign Agriculture Service of the U.S. Department of Agriculture, they were escorted by Say Young Jo, American Soybean Association, Korea.

Andrzej M. Bernacki, Warsaw Agricultural University, Poland, visited Agricultural Economics on November 27 to discuss on farm transfers, farm business analysis, farm record-keeping, land appraisals, and the Department's international activities. He met with Chester B. Baker, Royce A. Hinton, Richard P. Kesler, John T. Scott, Stephen C. Schmidt, and Wesley D. Seitz.

Muhammed Seif Khatib, Pius Michael Mlowe, Deodatus Mtasiwa, and Ali Rajab Juma, Tanzania Youth Organization, visited UIUC from December 9 to 12. They discussed the 4-H program with Ann Rund, David D. Pyle, Mary K. Munson, Gerald G. Gast, and R. William Seiders. While in Illinois they visited the Vermilion County Extension Office and attended some local 4-H club meetings. Sponsored by the International Visitor Program of the U.S. Information Agency, their itinerary was arranged by the African-American Institute.

SEMINARS

January 30 Recent Events in Plant Breeding in Brazil - William da Silva, Department of Genetics and Evolution, University of Campinas, Brazil, and currently a visiting professor in Agronomy.

4:00 p.m., 426 Mumford Hall.

(International Agriculture Seminar)

February 6 Interesting India - John R. Campbell, Dean of the College of Agriculture.

4:00 p.m., 426 Mumford Hall.

(International Agriculture Seminar)

February 13 Impressions of a Brief Visit to China - Jean M. Due, Agricultural Economics.

4:00 p.m., 426 Mumford Hall.

(International Agriculture Seminar)

WID CURRICULUM GUIDES

Multidisciplinary curriculum guides on topics related to women and Third World countries are available from the Office of Women in International Development. Prepared under a grant from the U.S. Department of Education, these guides include outlines for new courses and special modules for use in general international courses. Topics include consumer economics, family ecology, women in agriculture and urban employment, gender relationships in cultural context, and foods and nutrition for women and children. For more information and order forms contact the WID Office, 3022 Foreign Languages Bldg., University of Illinois, 707 South Mathews Avenue, Urbana, Illinois 61801, telephone 217/333-1977.

AGRICULTURAL RESEARCH POLICY SEMINAR

The 1985 Agricultural Research Policy Seminar will be held April 15 to 25 at the University of Minnesota, St. Paul. Designed for project directors

and coordinators and chiefs of party of agricultural development projects, the seminar will examine research policy issues and evaluate methods for planning long- and short-term research projects. Information about the seminar and registration is available from Delane E. Welsch, College of Agriculture, 277 Coffey Hall, 1420 Eckles Avenue, St. Paul, Minnesota 55108, 612/373-1498.

MARINE SEA GRANT EXTENSION PROJECT

The Illinois-Indiana Marine Sea Grant Extension Project is part of the network that produced a one-hour documentary entitled "Farmers of the Sea." The program, which was recently broadcast as part of the NOVA television series, examines the worldwide business of aquaculture. Suitable for adult and high school audiences, the film may be rented or bought. More information on the film and on aquacultural practices in Illinois and Indiana is available from Robert Espeseth, Coordinator of the Illinois-Indiana Sea Grant Project,

203 Huff Hall, 1206 South Fourth Street, Champaign, IL 61820, telephone (217) 333-1824.

SPANISH FOR AGRICULTURE

A set of materials on "Spanish for Agriculture" is available from the Language Learning Laboratory, G70 Foreign Languages Building, 333-9776. Suitable for classes or for individual study, the materials consist of a Basic Manual, Audio Manual with audio cassettes, Video Manual with video cassettes, a reading course on the PLATO system, and supplementary slide-cassette lessons for the language laboratory. These materials do not cover introductory Spanish-language study.

Free use of the audio and video recordings is available to anyone on the UIUC campus. Copies of all materials may be purchased from the Language Learning Laboratory, G70 Foreign Languages Bldg., 707 South Mathews St., Urbana, IL 61801. The price list is available upon request. Inquiries are welcomed.

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February 1985, No. 81

INTERNATIONAL ACTIVITIES

Raymond A. Woodis, Agricultural Communications, recently returned to campus following a two-year assignment with the Caribbean Agricultural Extension Project (CAEP). Primarily funded by USAID, CAEP is a joint effort of the University of the West Indies (UWI), the Midwest Universities Consortium for International Activities (MUCIA), and the agricultural ministries of Antigua, Belize, Dominica, Grenada, Montserrat, St. Kitts-Nevis, St. Lucia and St. Vincent, and the Grenadines.

Mr. Woodis was attached to the UWI Department of Agricultural Extension in St. Augustine, Trinidad, where he helped to establish a Regional Extension Communication Unit to provide support for extension systems in participating countries. He also worked with individual ministries of participating countries to help develop national agricultural information units.

Jean M. Due, Agricultural Economics, received an award on December 5, 1984, from UIUC's Extension Education Program for identification, recruitment, and support of international students.

Jacobus M. Laubscher, M.S. 1976, UIUC, became the first recipient of the Maize Board Chair in Farm Management at the University of the Orange Free State, Bloemfontein, South Africa. In

1983, supported in part by the Norton Chair, Dr. Laubscher did research at UIUC to complete his Ph.D. from the University of the Orange Free State.

James F. Evans, Agricultural Communications, presented an invited paper on patterns and new trends in disseminating information related to human resource development in agriculture at a Symposium on Education for Agriculture, November 12 to 16, Los Banos, Philippines. The symposium was sponsored by the Committee on Science and Technology in Developing Countries, the Asian Association of Agricultural Colleges and Universities of Agriculture, and the International Rice Research Institute.

John W. Courter, Horticulture, presented invited talks to the Strawberry Growers Association of Manitoba, Canada, during the Manitoba Horticultural Industry Days, November 14 to 16. Topics presented were: pick-your-own customers and farm trade area; principles of direct marketing; and the role of an association in advertising and promotion.

J. B. Claar, INTERPAKS, represented UIUC's College of Agriculture in Brazil from November 23 to December 1 for the signing of a Memorandum of Agreement. The United States and Brazil have agreed to pool their skills and resources to help Third World nations with agricultural development. Ten U.S. universities

(UIUC, Purdue, Mississippi State, Texas A&M, Southern Illinois, Michigan State, University of Florida, University of Wisconsin, University of Arizona, and Ohio State) will work with EMBRAPA, the Brazilian agricultural research organization, under USAID contracts to assist developing countries.

Herbert J. Hopen, Horticulture, participated in the North Central Weed Control Conference, Winnipeg, Canada, from December 3 to 6. Dr. Hopen chaired the Hort Crops Section of the meeting and presented a paper on brassica weed control.

Tim Roche, a graduate student in Agricultural Economics, and Susan Roche, are spending nine months in Tanzania working on the Bean/Cowpea CRSP. Mr. Roche will be supervising data collection for his M.S. thesis and for the CRSP research.

Sam H. Johnson, Agricultural Economics, is studying the economics of small-scale agricultural water lifting devices in Indonesia for the International Rice Research Institute (IRRI), January 16 to February 13.

While in Asia Dr. Johnson will also visit IRRI headquarters in the Philippines and the Asian Vegetable Research and Development Center (AVRDC) in Taiwan.

L. Fred Welch, Agronomy, presented an invited paper entitled "Identifying Limiting Factors for High Corn Yields" at the Quebec Plant Food Society meeting, held in Montreal, Canada, January 31 to February 1.

William N. Thompson, TIPAN Pakistan project, will be in Pakistan during February and March to assist with the implementation phase of the TIPAN project at the Northwest Frontier Province Agricultural University.

Borje Gustafsson, Veterinary Clinical Medicine, was at Cairo University,

Egypt, from January 26 to February 2 to discuss cooperative programs with the Ministry of Agriculture.

VISITING RESEARCHERS

Tajammal Hussain, Northwest Frontier Province Agricultural University (NWFP-AU), Peshawar, Pakistan, arrived at UIUC on January 20 for six-months of post-doctoral study in Foods and Nutrition. Sponsored by UIUC's TIPAN Pakistan project, Dr. Hussain is preparing to serve as head of the newly formed Department of Human Nutrition at the NWFP-AU.

Harman Cetin, an agricultural engineer with PINAR (an integrated meat and animal feed company) in Kemalpaşa, Turkey, is a visiting scholar in Animal Science until June 30. Mr. Cetin will be involved in research and study on livestock feeding and management, sponsored by OICD/USDA.

Kazuhiko Kurata, Faculty of Agriculture at Niigata University, Japan, will be visiting Agricultural Engineering until May 30 to study agricultural machinery systems with Donnell R. Hunt.

VISITORS RECENTLY ON CAMPUS

Hsiu-Ching (Chen) Yu, specialist in agricultural development and technical assistance from Taiwan, visited UIUC from December 1 to 7 as a participant in the new Home Economics and Human Nutrition Expansion Education program sponsored by the USDA. She investigated the organization, development, and implementation of home economics extension programs in Illinois.

G. Ramchandani, Centre of Advanced Studies in Agricultural Communications, G. B. Pant University, India, met with faculty in Agricultural Communications, the Communications Research Institute,

Advertising, Communications Library,
and INTERPAKS from December 11 to 13.

Georges de la Taille, communication specialist with the Centre Technique Interprofessionnel des Oleagineux Metropolitains (CETIOM), Paris, France, discussed ways to more effectively disseminate research-based information to farmers with Raymond Woodis, Marilyn Upah-Bant, Gary L. Beaumont, Edwin W. Vernon, and others in Agricultural Communications, Folke Doving and Delmar F. Wilken, Agricultural Economics, and M. Gene Oldham, Agronomy, January 14 to 18.

Michel Debatisse, Institut de Gestion Internationale Agroalimentaire (IGIA), France, and currently on sabbatical leave at the University of Maryland, visited Agricultural Economics on January 21 and 22. While at UIUC Dr. Debatisse presented a seminar and a lecture to students.

SEMINARS

February 6 Interesting India - John R. Campbell, Dean of the College of Agriculture.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

February 13 Impressions of a Brief Visit to China - Jean M. Due, Agricultural Economics.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

February 20 Birds of Amazonian Peru - Scott R. Robinson, Illinois Natural History Survey.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

February 21 Training Women for Agricultural Production in Papua-New Guinea - Golie Jansen, School of Social Work.

12:00 noon, Paar Lounge, YMCA, 1001 South Wright Street, Champaign. You may bring your lunch or purchase it at

the YMCA cafeteria.

*WID Seminar

February 27 Adaptive Research Trials with Women Farmers in the Lilongwe Rural Development Project, Malawi - Craig Smith, Agronomy.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 6 Utilizing Ag Byproducts for Fuel and Feeds in Egypt and Kenya - Donald L. Day, Agricultural Engineering.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 13 Building Communications Support in the Caribbean Agricultural Extension Project - Raymond A. Woodis, Agricultural Communications.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 20 Cereals Marketing in Western Burkina - Mahir Saul, Anthropology.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 21 Women Executives in International Perspective - Norihiko Suzuki and Vijaya Narapareddy, Department of Business Administration. 12:00 noon, Paar Lounge, YMCA, 1001 South Wright Street, Champaign. You may bring your lunch or purchase it at the YMCA cafeteria.

*WID Seminar

March 27 Adventures of Two Entomologists in Zambia - Donald E. Kuhlman and John K. Bouseman, Agricultural Entomology and Economic Entomology, Illinois Natural History Survey.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

April 10 Long Term Rural Development in the Third World - Paul M.

Hanselman, President, International Farming Systems, Wheaton, Ill.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

FUNDING AVAILABLE

March 8 is the application deadline for Tinker Field Research Grants for graduate students and junior faculty. The Center for Latin American and Caribbean Studies is allocating funds for six to 14 weeks' research in Spanish- and Portuguese-speaking Latin America, Spain, and Portugal during 1985. Disciplines and topics are welcomed from any unit on campus. Previous area specialization is not required.

Application instructions are available from the Center, 1208 West California Street, room 250, 333-3182. An informational meeting will be held at the Center for prospective applicants on Tuesday, February 12, at 3:00 p.m.

February 28 is the application deadline for Title VI Summer Intensive Language Fellowship for 1985.

Graduate students at UIUC may apply for tuition, fees, and living stipend for intensive summer study of Latin

American Spanish, Portuguese, or Amerindian languages. Candidates should submit applications through their departments to the Center for Latin American and Caribbean Studies by February 28. Awards will be announced on March 22.

Application information is available from the Center, 1208 West California Street, room 250, 333-3182.

WID STUDENT WORKSHOP

"Gender Issues on the Social and Economic Development of Nations" is the title of the WID (Women in International Development) workshop to be held on Thursday, March 7, from 2:00 to 4:40 p.m. in rooms 269-273 of the Illini Union. The workshop will provide a forum for both men and women to discuss the possibility of a "minor" in international development at either the graduate or undergraduate level. For details contact the WID Office, 3014 Foreign Languages Building, 333-1977.

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March 1985, No. 82

JOHN J. NICHOLAIDES NEW DIRECTOR OF INTERNATIONAL AGRICULTURE

John J. Nicholaides, III, became the new Associate Dean and Director of International Agriculture at the University of Illinois at Urbana-Champaign on March 1. Dr. Nicholaides comes to UIUC from North Carolina State University (NCSU), where he has coordinated the Tropical Soils Research Program since 1977. In 1969-1970 he served as a soil scientist with the Peace Corps in Panama. After receiving his Ph.D. in 1973, Dr. Nicholaides joined the Soil Science Department at NCSU, where he led a soil fertility program in Costa Rica and Nicaragua. In 1975 and 1976 he was the coordinator for academic affairs in the Soil Science Department at NCSU. We extend a warm welcome to Dr. Nicholaides. His office is in 113 Mumford Hall, telephone 333-6420.

UIUC's Office of International Agriculture is widely recognized for its successful agricultural development programs. On-going projects include the International Soybean Program (INTSOY), the International Program for Agricultural Knowledge Systems (INTERPAKS), Transformation and Integration of a Provincial Agricultural Network (TIPAN) in Pakistan, the Zambia Agricultural Research and Extension (ZAMARE) project, and participation in MUCIA's Caribbean Agricultural Extension Project.

INTERNATIONAL ACTIVITIES

Barry A. Eisneberg and Jack Gruber, Horticulture, participated in the International Plant Propagator's meeting, Indianapolis, Indiana, December 11.

Carroll E. Goering, Agricultural Engineering, recently returned from a year's sabbatical leave in South Africa. For the first six months of 1984, Dr. Goering was attached to the Division of Agricultural Engineering of the South Africa Department of Agriculture, Pretoria, where he

participated in research on sunflower oil fuels for diesel tractors. The second half of the sabbatical was spent in the Agricultural Engineering Department of the University of Natal, Pietermaritzburg, where he participated in research on diesel fuels. Dr. Goering also spent a week in Zimbabwe working with Cephass Msipa in the Zimbabwean Institute of Agricultural Engineering. Mr. Msipa received his B.S. and M.S. degrees from UIUC.

Alfred G. Harms, Agricultural Economics, returned to UIUC in January

following a thirty-month assignment in Zambia with the Zambia Agricultural Research and Extension (ZAMARE) project. The ZAMARE project is funded by USAID through a contract with UIUC, Southern Illinois University at Carbondale, and the University of Maryland at Eastern Shore.

Dr. Harms served as the farming systems economist on the adaptive research planning team, located at the Kabwe Regional Research Station. The team conducted farmer surveys, farm experiments, and extension training for traditional and small-scale (fewer than 15 acres) commercial farmers.

Paul G. Risser, Chief of the Illinois Natural History Survey, visited the grasslands of Argentina as part of a seven-person team of U.S. grassland ecologists, January 2 to 12. Sponsored by the National Science Foundation, the visit was designed to develop comparative studies of South and North American grasslands.

Miodrag Ristic, Veterinary Pathobiology, spent the month of January in India on behalf of USAID. He prepared a research and training program to develop control measures for diseases of food producing animals caused by blood protistas. The diseases selected for this study were bovine theileriosis, babesiosis, and anaplasmosis. The program will be sponsored by the Indian Council for Agricultural Research and USAID.

James E. Corbin, Animal Science, addressed the South African Veterinary Association, Johannesburg, on dog nutrition in mid-January. His trip also included a visit to the Animal Science Department of the University of Pretoria, the South African Police Dog Training Institute, and the Premier Milling Company.

Frederick C. Fliegel, Agricultural Economics, arrived in Brazil at the end of January for a six-month sabbatical leave funded by a Fulbright

Scholarship. Located at Itabuna, Bahia, Dr. Fliegel will investigate the adoption of technology and prepare a case study for INTERPAKS project.

Carolyn M. Pribble, International Agriculture, chaired a session on USAID's financial management policies at the Title XII BIFAD Regional Development and Training Seminar, Pennsylvania State University, January 30 to February 1. Earl D. Kellogg, International Agriculture, attended the January 30 sessions before participating in the Farming Systems Support Project meetings in Gainesville, Florida.

Mukishi Pyndji, who passed his M.S. examination in Plant Pathology on February 5, will work on diseases of legume crops at the Zaire National Institute for Agricultural Research.

Thomas L. Frey, Agricultural Economics, presented a keynote address, two workshop sessions, and a summary of conference activities at the Farm Management Challenges '85 Conference in Halifax, Nova Scotia, Canada, February 9 to 12.

John W. Courter, Horticulture, spoke at the annual meeting of the North American Strawberry Growers Association and acted as marketing program chair, February 10 to 12, Toronto, Ontario, Canada.

Attending the national conference "International Agricultural Programs and Agricultural Communications: Partners for International Development" were Delbert T. Dahl and James F. Evans, Agricultural Communications, Earl D. Kellogg, International Agriculture, and Anita A. Povich, Agricultural Publications. The conference was held in St. Louis, Missouri, from February 13 to 15.

James B. Sinclair, Plant Pathology, left in mid-February for a three-week trip to Zambia, Zimbabwe, and England.

Dr. Sinclair will review the research program of Glen Hartman, Plant Pathology graduate student in Zambia, discuss soybean research for the ZAMARE project, plan a nematology project and a soybean workshop in Zimbabwe, and meet with Tropical Development and Research Institute representatives in London.

John M. Gerber, Horticulture, presented a paper entitled "Nutrient Solution Management for Optimum Plant Growth" at the Hydroponics Worldwide Conference, Honolulu, Hawaii, February 18 to 22. UIUC was one of several university sponsors of the conference.

Burton E. Swanson, INTERPAKS, attended a JCARD panel on human capital development at USAID in Washington, D.C., on February 15, and a meeting of the African Agricultural Education Steering Committee, also for USAID, on February 22 in Washington, D.C.

Dr. Swanson will present a paper on the contribution of U.S. universities in training foreign agricultural scientists at the Symposium on American Scientific Enterprise, Lexington, Kentucky, March 4 to 6.

Earl D. Kellogg, International Agriculture, will act as farming systems economist on the Zambia Agricultural Research and Extension (ZAMARE) project's mid-term evaluation, February 28 to March 23, Lusaka, Zambia.

Joseph A. Jackobs, Agronomy, will attend a meeting of IRRI (International Rice Research Institute) and IITA (International Institute of Tropical Agriculture) scientists to discuss future cooperative programs, March 5 to 9 at IRRI, Los Banos, Philippines. From March 10 to 15, Dr. Jackobs will discuss the formation of the International Soybean Improvement Network (ASIN) and the role of soybeans in Asian farming systems at a meeting in Phitsanulok, Thailand.

Alvin I. Nelson, Food Science, and Harold E. Kauffman, INTSOY, will discuss the expansion of soybean utilization with government, private industry, and USAID officials in Zimbabwe and Zambia, March 9 to 18. Both countries are eager to use more soybeans for human food. Dr. Kauffman will also discuss East African regional soybean activities with USAID officials in Nairobi, Kenya.

Joseph A. Jackobs and Emerson D. Nafziger, Agronomy, Michael E. Irwin, Agricultural Entomology and Illinois Natural History Survey, and Sheldon W. Williams, Agricultural Economics, will lecture at the Soybean Technology Training Program in Islamabad, Pakistan, March 18 to 26. The course is a cooperative project between INTSOY and the Pakistan Agricultural Research Council (PARC), funded by USAID. Harold E. Kauffman, INTSOY, will participate in the opening of the training course.

Michael F. Hutjens, Dairy Science, will speak about nutritional compromises of feeding for high production at the West-Central Ontario Dairy Days, St. Jacob, Walkerton, and Atwood, Canada, March 26 to 29.

NEW INTERNATIONAL STUDENTS

The College of Agriculture and the College of Veterinary Medicine welcome the following new foreign graduate students to the University of Illinois at Urbana-Champaign.

Agricultural Economics

Jose M. Albiac, Spain, international marketing and agricultural prices; Luis Antonio Gaybor, Ecuador, rural community development.

Agronomy

Ali M. Gheddi, Somalia, plant genetics; Paigham Shah, Pakistan, crop production.

Animal Science

Mauricio Bunge, Argentina, beef.

Dairy Science

Joel Dore, France, dairy microbiology; Eve-Karen Finkelstein, Canada, lactation; Hongxue Zhao, China, dairy microbiology.

Family and Consumer Economics

Jin Hwa Jung, Korea, family and consumption economics; Youngsook Yoo, Korea, family and consumption economics.

Food Science

Suresh Karkala Rao, India, food processing; Yue-Horng Yen, Taiwan, food engineering.

Forestry

Yi-tsia Liu, Taiwan, forest genetics.

Horticulture

Navin Sinha, India, vegetable crops.

Textiles, Apparel, and Interior Design

Seung Kang, Korea, Textiles and Apparel.

Veterinary Medicine

Roberto Acosta-Galvez, Peru, veterinary pathology; Harm Hogenesch, Netherlands, veterinary pathology; Chih-heng (Jeff) Ko, Taiwan, food animal medicine and surgery.

VISITING RESEARCHERS

Mohamed Moustafa, Zagazig University, Egypt, is a post-doctoral trainee with Gordon J. Baker, equine section of Veterinary Clinical Medicine, from November 1984 through October 1985.

SEMINARS

March 6 Utilizing Ag Byproducts for Fuel and Feeds in Egypt and Kenya - Donald L. Day, Agricultural Engineering.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 13 Building Communications Support in the Caribbean Agricultural Extension Project - Raymond A. Woodis, Agricultural Communications.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 20 Cereals Marketing in Western Burkina - Mahir Saul, Anthropology.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 21 Women Executives in International Perspective - Norihiko Suzuki and Vijaya Narapareddy, Department of Business Administration. 12:00 noon, Paar Lounge, YMCA, 1001 South Wright Street, Champaign. You may bring your lunch or purchase it at the YMCA cafeteria.

*WID Seminar

March 27 Adventures of Two Entomologists in Zambia - Donald E. Kuhlman and John K. Bouseman, Agricultural Entomology and Economic Entomology, Illinois Natural History Survey.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

April 10 Long-Term Rural Development in the Third World - Paul M. Hanselman, President, International Farming Systems, Wheaton, Illinois.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

April 18 Korean Women: Coping with Change - Moonja Kim, Construction Engineering Research Laboratory. 12:00 noon, Paar Lounge, YMCA, 1001 South Wright Street, Champaign. You may bring your lunch or purchase it at the YMCA cafeteria.

*WID Seminar

VISITORS RECENTLY ON CAMPUS

Flemming Thorup of the Institute for

Animal Reproduction at the Royal Veterinary and Agricultural University, Copenhagen, Denmark, visited Animal Science from January 26 to February 7 to observe and study techniques of reproductive physiology with emphasis on embryo transfer in swine. He will use the information to help establish embryo transfer as a method of introducing new swine genetic material in Danish herds. Mr. Thorup, who was hosted by Philip Dzuik, gave a seminar during his visit.

Shiv R. Singh, Director of the Grain Legume Program at the International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria, discussed cooperative soybean projects with Harold E. Kauffman and John W. Santas, INTSOY, Alvin I. Nelson, Food Science, Joseph A. Jackobs, Agronomy, and Marcos Kogan and Michael E. Irwin, Agricultural Entomology and Illinois Natural History Survey, February 8-9.

Arnulf R. Persson, Agricultural University of Norway at Aas, spent February 10 to 26 in Horticulture discussing vegetable production.

Fred Anderson, General Manager of the Jamaica Soya Products Industries Ltd., visited UIUC on February 24. He discussed constraints to soybean production in Jamaica with INTSOY staff.

Dieter Ordolff, Federal Dairy Research Centre, Kiel, Germany, discussed automatic teat cup attachment systems with Hoyle B. Puckett, USDA and Agricultural Engineering, Sidney L. Spahr, Dairy Science, and Nelson L. Buck, Agricultural Engineering, February 25 and 26. Dr. Ordolff also presented a seminar on dairy automation in Germany.

Also visiting at the same time were Wim Rossing, Agricultural Engineering Institute, Wageningen, Netherlands, and Mr. Montalescot and Mr. Michineau, France.

Bai-Chao Zhang, Southwestern Agricultural College, Beipie, Yu-nan Luo, South China Agricultural University, Guangzhou, Zi-cheng Li, Department of Horticulture, Shenyang, Wei Wang Hu, Central China Agricultural College, Wuhan, Jin Ping Chen, Northwestern College of Agriculture, Wugong, and Xue-Xiu Wang, Nanjing Agricultural University, Jiangsu, all members of the Food Science Education and Research Delegation from the People's Republic of China, visited Food Science from February 25 to March 1. Their schedule was arranged by L. S. Wei.

INTERPAKS REVIEW

The Project Advisory Committee for the INTERPAKS research project on Technology Development, Transfer, and Feedback Systems in Agriculture, sponsored by USAID, met in Chicago on February 20th. The USAID Project Management Team from Washington, D.C., also attended. Representing INTERPAKS were: Burton E. Swanson, project director, J. B. Claar, INTERPAKS Director, Kathleen Cloud and Jane S. Johnson, INTERPAKS, Sam H. Johnson, Agricultural Economics, and Earl D. Kellogg, International Agriculture, all members of the research team.

FUNDING AVAILABLE

March 8 is the application deadline for Tinker Field Research Grants for graduate students and junior faculty. The Center for Latin American and Caribbean Studies is allocating funds for six to 14 weeks' research in Spanish- and Portuguese-speaking Latin America, Spain, and Portugal during 1985. Disciplines and topics are welcomed from any unit on campus. Previous area specialization is not required.

Application instructions are available from the Center, 1208 West California St., room 250, 333-3182.

ZAMARE TRAINING UPDATE

Sponsored by the Zambia Agricultural Research and Extension (ZAMARE) project, 23 trainees are currently enrolled in degree programs at U.S. universities. Nine students have completed degree training and 50 Zambian scientists have received specialized nondegree training. Now at the midpoint of the project, most of the training objectives have been met.

WORLD AFFAIRS CONFERENCE

"The Persian Gulf and World Stability: The Arc of Crisis" is the title of the Central Illinois World Affairs Conference, March 15 and 16, Peoria, Illinois. Registration and conference information is available from the Office of Continuing Education in International Affairs, University of Illinois, 205 Arcade Building, 725 South Wright Street, Champaign, IL 61820, telephone (217) 333-1465.

1985-1986 FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS

Applications are invited for Title VI National Resource Fellowships for graduate-level language and area study during the academic year 1985-1986. Applicants must be U.S. citizens and graduate students at UIUC.

Africa

Application deadline: March 18. Details are available from the African Studies Program, 1208 West California Street, Urbana, IL 61801, telephone (217) 333-6335.

Latin America

Application deadline: April 5. Details are available from the Center for Latin American and Caribbean

Studies, 1208 West California Street, room 250, Urbana, IL 61801, telephone (217) 333-3182.

South Asia

Application deadline: March 18. Details are available from the Program in South and West Asian Studies, 381 Lincoln Hall, 702 South Wright Street, Urbana, IL 61801, (217) 333-0796.

WID STUDENT WORKSHOP

"Gender Issues on the Social and Economic Development of Nations" is the title of the WID (Women in International Development) workshop to be held on Thursday, March 7, from 2:00 to 4:40 p.m. in rooms 269-273 of the Illini Union. The workshop will provide a forum for both men and women to discuss the possibility of a "minor" in international development at either the graduate or undergraduate level. For details contact the WID Office, 3014 Foreign Languages Building, 333-1977.

INTERNATIONAL VISITORS IN 1984

The Office of International Agriculture coordinated itineraries for 166 visitors from 31 countries in 1984. This total does not include the many scientists who directly contacted faculty members in the College of Agriculture.

EXTENSION'S INTERNATIONAL ROLE

A national conference called "The International Role of Extension: Future Directions" will be held from March 31 to April 2, 1985, at Michigan State University, East Lansing. The conference is sponsored by the USDA's Extension Service and the National Association of State Universities and Land-Grant Colleges (NASULGC) in cooperation with Michigan State University. Contact Myrtle F. Jones,

Conference Coordinator, Lifelong Education Programs, Michigan State University, East Lansing, Michigan, 43324-1022, telephone (517) 353-9407, for registration information.

1985 AWID CONFERENCE

"Women Creating Wealth: Transforming Economic Development" is the title of the second conference sponsored by the Association of Women in Development (AWID), April 25 to 27, 1985, Washington, D.C. The conference will focus on the relationships between human, natural, and capital resources and their different effects on women and men. Registration information is available from the AWID Conference Coordinator, c/o NASULGC, Suite 710, One Dupont Circle, Washington, D.C. 20036, telephone (202) 833-1848.

NEW INTERNATIONAL INSTITUTE FORMED

The Agricultural Development Council (ADC), Winrock International Livestock

Research and Training Institute, and the International Agricultural Development Service (IADS), all private, U.S. development organizations, have announced their merger to form the Winrock International Institute for Agricultural Development. Headquarters will be located in Morrilton, Arkansas, with a subsidiary office in Washington, D.C.

AFRICAN AGRICULTURAL DEVELOPMENT CONFERENCE

The International Conference on African Agricultural Development: Technology, Ecology, and Society will be held May 28 to June 1, 1985, at California State Polytechnic University, Pomona. Conference information is available from: African Agricultural Development Conference, California State Polytechnic University, 3801 West Temple Avenue, Pomona, California 91768, telephone (714) 598-0580.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. Contact the Office of International Agriculture to receive your own copy of this Newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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International Agriculture Newsletter

UNIVERSITY OF ILLINOIS
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College of Agriculture and College of Veterinary Medicine, University of Illinois at Urbana-Champaign
113 Mumford Hall, 1301 W. Gregory Drive, Urbana, IL 61801, USA. Telephone (217) 333-6420; Telex 206957

April 1985, No. 83

INTERNATIONAL ACTIVITIES

Carolyn M. Pribble left the Office of International Agriculture at the end of February to become the International Programs Manager of the Executive Development Center in the College of Commerce and Business Administration. We wish Carolyn success in her new position.

Edward Carey completed the requirements for a Ph.D. degree in Horticulture and has accepted a postdoctoral fellowship in the Cassava Improvement Program at CIAT (Centro Internacional de Agricultura Tropical), Cali, Colombia. Dr. Carey is working as a plant breeder.

John M. Gerber, Horticulture, has been appointed to the Advisory Board of the International Center for Special Studies in Honolulu, Hawaii. Dr. Gerber will advise the Center on the development of a research and education center for controlled environment food production to be built on the island of Oahu.

Kenneth R. Robertson, Botany Section of the Illinois Natural History Survey, collected samples of the rose family and wild representatives of the pome subfamily in Mexico during February. His trip was funded by a National Science Foundation grant to study the generic limits of the pome subfamily.

Roy K. Simons, Horticulture, presented a paper on apple rootstock development at the International Dwarf Fruit Tree Association annual meeting, February 23 to March 2, Yakima, Washington.

Thomas L. Frey, Agricultural Economics, was a visiting professor at the University of Guelph, Ontario Agricultural College, Canada, from March 4 through 13, at the invitation of the School of Agricultural Economics and Extension Education.

John A. Juvik, Horticulture, presented an invitational seminar on his research results at the International Plant Research Institute, San Carlos, California, March 11.

John W. Santas, Burton E. Swanson, and Timothy Koehnen, International Agriculture, attended the 1985 International Science and Education Council Training Conference entitled "Training in an Interdependent World: Sharing Our Ideas," March 11 to 13, Washington, D.C. Dr. Santas spoke at a session on USAID participant training and administration, and Dr. Swanson was a moderator at a session on methods of evaluating training programs.

Dr. Santas also attended a conference sponsored by the Office of International Training of USAID, March 14, and visited the University of Maryland, Eastern Shore, to coordinate training on the ZAMARE project.

Jean M. Due, Agricultural Economics, was a member of a team that evaluated the use of Title XII Strengthening Grant funds at Louisiana State University, Baton Rouge, March 12 to 16. Dr. Due was also a team member of the Bean/Cowpea CRSP Technical Committee, which evaluated three-year grant extensions to cooperating institutions. The team met at East Lansing, Michigan, March 17 to 20.

Kathleen Cloud, INTERPAKS, gave an International Agriculture Seminar at Purdue University on women's productivity in agricultural households, March 12, and spoke about food issues at an International Relations Symposium sponsored by Yale University and the League of Women Voters, Hartford, Connecticut, March 19. On April 9, Ms. Cloud will lead a case study seminar at Princeton University's Woodrow Wilson School on the Indonesia Family Planning and Nutrition Project.

Thomas A. McCowen, International Agriculture, and J. J. Kameron, Assistant Director of Business Affairs at UIUC, presented a seminar to senior administrative staff of the University of Idaho, Moscow, on USAID contract negotiation experiences, March 19.

John J. Nicholaides, International Agriculture, traveled to Washington, D.C., March 18 and 19, to meet with USAID bureau staff and to discuss procedures for developing a joint memorandum of understanding with the University of Maryland, Eastern Shore.

Peter B. Bayley, Aquatic Biology Section of the Illinois Natural History Survey, presented the introductory principal lecture, known as the Pentelov Lecture, at the Fourth British Freshwater Fisheries Conference, Liverpool, England, April 1 to 3. The title of his paper was "Sampling Problems in Freshwater Fisheries."

Thomas A. McCowen, International

Agriculture, will be in Peshawar, Pakistan, from early April to mid-May as acting team leader on the TIPAN (Transformation and Integration of a Provincial Agricultural Network) project.

Raymond G. Cragle, Dairy Science, Errol D. Rodda, Agricultural Engineering, R. William Seiders, 4-H Youth Extension Specialist, and Martin Waananen, Assistant Dean for Resident Instruction, Washington State University, will be the first four resident staff members on the TIPAN project at the Northwest Frontier Province Agricultural University, Peshawar, Pakistan. Dr. Cragle will serve as research program specialist; Dr. Rodda as institution development specialist and team leader; Dr. Seiders as outreach program specialist; and Dr. Waananen as teaching program specialist.

At the request of the NWFP Agricultural University, Dr. Rodda and Dr. Waananen will travel to Peshawar for short assignments prior to beginning their resident service. The team is expected to assemble in Peshawar before the fall term.

Jane S. Johnson, INTERPAKS, will work with library personnel at the National Agricultural Library and Documentation Centre (NALDOC) at the invitation of the Bangladesh Agricultural Research Council (BARC), for the first three weeks in April. She will develop a computerized bibliographic database and key word classification system for irrigation water management material, and advise NALDOC personnel on access and use of major library holdings in irrigation water management. At the end of April Ms. Johnson will travel to Sri Lanka to tie together the activities of NALDOC in Bangladesh with those of the International Irrigation Management Institute in Kandy.

Sam H. Johnson, Agricultural Economics, will work with the Bangladesh Agricultural Research Council from March 24 to April 24 to help define

the optimal mix of ground water lifting devices. At the end of April Dr. Johnson will exchange information with scientists at the International Irrigation Management Institute, Kandy, Sri Lanka, and during the first week of May he will work in India with Shashi Kolavalli, a Ph.D. student in Agricultural Economics who is collecting data for his dissertation.

Frank J. Stevenson, Agronomy, will consult with scientists at the Hebrew University in Jerusalem and other academic institutions in Israel on the UIUC BARD research project, March 30 to April 16.

Gary E. Pepper, Agronomy, will present one-day workshops for extension staff on field demonstrations for crop production and elementary statistical procedures useful in field plot research at several locations in Belize, April 8 to 17. Dr. Pepper's trip is sponsored by USAID through MUCIA'S Caribbean Agricultural Extension Project (CAEP).

Ramona Nowak, Animal Science, will present a seminar entitled "Early Pregnancy Factors" at an international workshop in Mariensee, Germany, and also will visit the laboratory of Brian Heap at Babraham, England, April 15 to 30.

Presenting papers at the 1985 AWID (Association of Women in Development) Conference on "Women Creating Wealth: Transforming Economic Development," April 25 to 27, Washington, D.C., are Golieda G. Jansen, Social Work, Sally Gordon, Human Development and Family Ecology, and Kathleen Cloud, INTER-PAKS. Frances M. Magrabi, Family and Consumer Economics, will give a panel presentation coauthored with Navaz Bhavnagri, Elementary and Early Childhood Education. Also attending is Barbara A. Yates, Educational Policy Studies and Director of UIUC's Office of Women in International Development.

B. Jean Peterson, Human Development and Family Ecology, recently won a Fulbright award for overseas research. Dr. Peterson will collect data to compare commercial vegetable farming and subsistence farming households in Banguet Province, Philippines, from late April to late July.

James B. Sinclair, Plant Pathology, arranged for approximately 240 volumes of agricultural books and journals to be sent to the library of the University of Zambia, Lusaka. The volumes were donated by faculty in the College of Agriculture. If you have books to donate for distribution to libraries in developing countries, contact Dr. Sinclair at N-519 Turner Hall, 333-6588.

VISITING RESEARCHERS

Nazeer Ahmad, Head of the Department of Soil Science, University of the West Indies, will be in the Agronomy Department until September. Dr. Ahmad is teaching a course on the genesis, classification, and management of tropical soils, and is available to consult with faculty and students. He can be contacted c/o Robert L. Jones, N-415 Turner Hall, Agronomy, 333-9490.

Richard Whale, a cattle ranch manager with the New South Wales Department of Agriculture, Trangie, Australia, is visiting the Animal Science Department for the spring semester. Mr. Whale was awarded the trip for winning the Australian Angus Society Judging Contest.

Violette Ducruet, INRA, Dijon, France, arrived at UIUC in January to work with Edward G. Perkins, Food Science, on the isolation, characterization, and chemistry of food flavors. Dr. Ducruet can be contacted at the Burnside Research Laboratory, 333-1874, through June 1985.

S. Iqbal Shah, animal scientist, Northwest Frontier Province Agricultural University, Peshawar, Pakistan, began a six-month post-doctoral program on March 31, sponsored by the TIPAN project. Dr. Shah will spend seven weeks at UIUC and Southern Illinois University, Carbondale, before traveling to the University of Nebraska to work with the program on nonconventional food stuffs.

SEMINARS AND OTHER EVENTS

April 9 Agriculture in Sri Lanka - Welikala Nihal, Agronomy.
12:00 noon, W-109 Turner Hall.
*Agronomy 400 Soils Seminar

April 10 Long-Term Rural Development in the Third World - Paul Hanselman, President, International Farming Systems, Wheaton, Illinois.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

April 10 The Problems of Food Production in Africa: A Panel Discussion.
7:30 p.m., Latzer Hall, YMCA, 1001 South Wright Street, Champaign.
*African Students Association Seminar

April 11 Yugoslavia Today: Problems and Prospects - Rasio Dunatov, Slavic Languages and Literatures.
12:00 noon, 329 Davenport Hall.
*International Programs and Studies

April 12 USDA-ERS Research on Africa and the Middle East and Employment Opportunities in USDA-ERS - Cheryl Christensen, United States Department of Agriculture, Economic Research Service.
2:00 p.m., 422 Mumford Hall.
*Agricultural Economics Seminar

April 12 The African Food Crisis: Some Solutions - Cheryl Christensen, USDA-ERS.
3:00 p.m., 210 Illini Union
*African Students Association Seminar

April 17 Life on the Frontier: Impressions of the TIPAN/Pakistan Project - William N. Thompson, senior project adviser, and Errol D. Rodda, team leader.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

April 18 Korean Women: Coping with Change - Moonja Kim, Construction Engineering Research Laboratory.
12:00 noon, Paar Lounge, YMCA, 1001 South Wright Street, Champaign. You may bring your lunch or purchase it at the YMCA cafeteria.
*WID Seminar

April 24 International Agriculture: Past Experience and Vision for the Future - John J. Nicholaides, III, Director and Associate Dean, Office of International Agriculture, UIUC.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

VISITORS RECENTLY ON CAMPUS

Jean Fitamant and Claude Bosser, agriculture students from France attending Illinois State University at Normal, visited Ralph V. Johnson, Dairy Science, on February 11. They were accompanied by Donald Meyer, McLean County Extension Adviser.

Fernando Haaland, Mogiana Alimentos, Campinas, Brazil, met with James E. Corbin, Animal Science, on February 12 and 13. They discussed nutrition and processing of pet foods.

Ludmilla Marin, a consultant for IITA on crop utilization, discussed soybean uses and women in development issues with Harold E. Kauffman and Alvin I. Nelson, INTSOY, and Kathleen Cloud, INTERPAKS, March 27.

A. K. Jairath, managing director, Rakshak Farm Aids Ltd., Hyderabad, India, visited UIUC in early March to discuss nutrition topics with faculty

in the College of Agriculture. Mr. Jairath met with Munir Cheryan, Food Science, Michael F. Hutjens, Dairy Science, and Richard M. Forbes, Sorab P. Mistry, and James E. Corbin, Animal Science.

Takashi Naiki, Gifu University, visited the Plant Pathology Department on March 4 and 5. Dr. Naiki presented a seminar on vegetable pathology in Japan, discussed soil related pathology research with graduate students, and visited the turf grass research program directed by Henry T. Wilkinson.

Pedro Vega, Dean of the College of Agronomy at the Central University of Venezuela, Aragua, met with Robert P. Bentz, Cooperative Extension Service, A. W. Burger, Darrell A. Miller, and D. E. Alexander, Agronomy, John W. Santas, International Agriculture, Upson S. Garrigus and Daniel Gianola, Animal Science, and Donald A. Holt, Agricultural Experiment Station, March 6 to 8. Mr. Vega's U.S. trip was sponsored by the U.S. Information Agency and his program at UIUC was arranged by International Programs and Studies.

Leopoldo Casal, Rector, National University of La Pampa, Santa Rosa, Pedro Gonzalez, Rector, National University of the South, Bahia Blanca, and Hugo Medici, Rector, National University of San Juan, Argentina, discussed agriculture and marketing with William L. George, Resident Instruction, and Harvey J. Schweitzer, Philip Garcia, and Lowell D. Hill, Agricultural Economics, March 12 and 13. Their visit was coordinated by International Programs and Studies, UIUC.

Toshio Ishiguro and Seiji Kitamura, Nippon Pet Food Ltd., Japan, discussed the nutrition of dogs, cats, and exotic birds with Julia Van Briggie and James E. Corbin, Animal Science, March 15.

S. G. Ilangantileke and S. Seneviratne, Department of Agricultural Engineering, University of Peradeniya, Sri Lanka, visited UIUC on March 25 as part of a U.S. tour arranged by USAID's Bureau of Science and Technology. They are working on the feasibility of promoting an indigenous vegetable oil as a fuel substitute for diesel engines in Sri Lanka, and met with Carrol E. Goering, Agricultural Engineering.

Luis H. Camacho, Agronomy/INTSOY soybean breeder stationed at CIAT (Centro Internacional de Agricultura Tropical), Cali, Colombia, discussed his research with INTSOY, Agronomy, and International Agriculture staff on March 21.

HOW DO WE COMPARE?

The campus international student tally of 1,776 for the 1985 spring semester breaks the previous record of 1,763 set last fall. Eighty-nine percent of these are graduate students, and 11% are undergraduates. They come from 91 countries.

We in the College of Agriculture host about 11% of the degree-seeking foreign student population on campus.

Our thanks to the Office of International Student Affairs for these statistics.

<u>UIUC Campus Unit</u>	<u>Number of Students</u>
Liberal Arts and Sciences	554
Engineering	431
Commerce	220
Agriculture	197
Fine and Applied Arts	116
Education	114
Applied Life Sciences	35
Communications	31
Veterinary Medicine	25
Law	22
Aviation	2
<u>other units</u>	<u>29</u>

COURSE FOR SIERRA LEONE ADMINISTRATORS

INTERPAKS and the Office of International Agriculture are hosting five senior administrators from the Ministry of Agriculture and Natural Resources, Sierra Leone, for a three-week training seminar, March 23 to April 12. Participants will study the agricultural research and extension programs in Illinois, Georgia, Florida, and Louisiana.

WID SPRING WORKSHOP

The Women in International Development Office is sponsoring a spring workshop for international women and U.S. women with international interests. Entitled "Women and Work in an International Context: A Workshop on Opportunities and Skill Development," it will be held May 4, 1985, in room 322 Illini Union from 8:30 a.m. to 3:30 p.m. Refreshments and free babysitting will be provided. The morning sessions will cover employment opportunities, and the afternoon sessions will deal with resume writing and interviewing skills. Cosponsored by the YWCA, the workshop is free and open to all UIUC women. For registration information contact the WID Office, 3022 Foreign Languages Building, 333-1977.

AFRICAN AGRICULTURAL DEVELOPMENT CONF.

The International Conference on African Agricultural Development: Technology, Ecology, and Society will be held May 28 to June 1, 1985, at California State Polytechnic University, Pomona. Conference information is available from: African Agricultural Development Conference, California State Polytechnic University, 3801 West Temple Avenue, Pomona, California 91768, telephone (714) 598-0580.

AFRICA WEEK '85

The African Students Organization is pleased to announce the activities for Africa Week '85. These are open to UIUC students, faculty, and staff, and to the general public.

Wednesday, April 10 Panel discussion on the problem of food production in Africa.

7:30 p.m., Latzer Hall, YMCA, 1001 South Wright Street, Champaign.

Friday, April 12 The African Food Crisis: Some Solutions - Cheryl Christensen, USDA-ERS.
3:00 p.m., 210 Illini Union.

Saturday, April 13 Traditional African banquet featuring African delicacies. Tickets are \$5.00 and can be purchased from Valentine Yapi, 328-5273; Thaddeus Menang, 328-2508; and Lena Roberson 328-1148.
7:00 p.m., St. Patricks Parish Center, 704 West Main Street, Urbana.

SPANISH FOR AGRICULTURE

Spanish 141 "Elementary Spanish for Agriculture and Related Fields I" will be offered during the fall semester in 1985 for students in agriculture and related fields interested in acquiring Spanish-language competence for work, travel, or study. The course may be taken for humanities credit in the College of Agriculture or to satisfy the foreign language requirement in the College of Liberal Arts and Sciences. Spanish 142 will be taught in the spring. The course is open to students with no prior study of Spanish or with one to two years of Spanish in high school. Faculty and graduate students are welcome as auditors if space allows. For more information contact Margo De Ley, 3022 Foreign Languages Building, 333-5287, or 333-1977.

STUDENT PAPER COMPETITION

May 1, 1985, is the deadline for submission of papers written by students on topics related to Women in International Development. One \$150 prize will be awarded by the Office of Women in International Development. For topics of past winning papers and further information about the competition contact the WID Office, 3022 Foreign Languages Building, 333-1977.

1986-1987 RESEARCH FELLOWSHIPS IN INDIA

June 15, 1985, is the application deadline for 1986-1987 Advanced Research Fellowships in India. Twelve long-term (6-10 months) and nine short-term (2-3 months) awards are being offered. Awards are available in all academic disciplines, and scholars with limited or no previous experience in India are especially encouraged to apply. Application forms and further information are available from the Council for International Exchange of Scholars, attn: Indo-American Fellowship Program, 11 Dupont Circle, Suite 300, Washington, D.C., 20036-1257, telephone (202) 939-5472.

1985-1986 FULBRIGHT AWARDS

Applications for lectureships are still being accepted for:

Nigeria - any agricultural area

Romania - agronomy

Yugoslavia - wheat breeding

For additional information contact the Council for International Exchange of Scholars, 11 Dupont Circle, Suite 300, Washington, D.C., 20036-4950, telephone (202) 833-4950.

OAS FELLOWSHIPS

April 30 is the application deadline for Organization of American States

(OAS) fellowships for research in any field except medicine. Fellowships are granted for periods ranging from three months to two years and are tenable in any of the member countries of OAS. Applications submitted by April 30, 1985, will be reviewed in June; applications submitted by August 31, 1985, will be reviewed in October. Application information is available from the Campus-Wide Research Services Office, 128 Observatory, 901 South Mathews Avenue, 333-0284.

FSSP ASSISTANTSHIPS

Students initiating master's or doctoral-level programs at the University of Florida with an emphasis on farming systems are eligible for assistantships. Recipients will minor in farming systems while majoring in one of the academic departments of the Institute of Food and Agricultural Sciences. Research may be conducted in Florida or overseas. Inquiries about assistantships should be sent to: Farming Systems Assistantships, International Programs, Institute of Food and Agricultural Sciences, University of Florida, 3028 McCarty Hall, Gainesville, Florida 32611, telephone (904) 392-1965.

1985 WID CONFERENCE

"Women Creating Wealth: Transforming Economic Development" is the title of the second conference sponsored by the Association of Women in Development (AWID), April 25 to 27, 1985, Washington, D.C. The conference will focus on the relationships between human, natural, and capital resources and their different effects on women and men. Registration information is available from the AWID Conference Coordinator, c/o NASULGC, Suite 710, One Dupont Circle, Washington, D.C. 20036, telephone (202) 833-1848.

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May 1985, No. 84

INTERNATIONAL ACTIVITIES

John R. Campbell, Dean of the College of Agriculture, accompanied Illinois Governor James Thompson on a trade mission to Hong Kong, China, and Japan, March 7 to 23. While in China, an agreement was signed to exchange plant and animal germplasm. In Japan they met with representatives of the corn starch and feed milling industries. Japan is the number one importer of Illinois agricultural goods, and both China and Japan are good customers of agricultural products.

Mukishi M. Pyndji completed the requirements for an M.Sc. degree in Plant Pathology in March and returned to Zaire to work as a soybean pathologist in the INERA National Legume Program, Mulungu.

Howard L. Whitmore, Veterinary Clinical Medicine, was in Egypt from January 4 to February 2 to represent UIUC on a research project with the University of Alexandria. The project deals with reproductive herd health programs for cattle in small villages. While in Egypt, Dr. Whitmore also visited and lectured at the veterinary schools in Cairo and Asuit.

Sonia Montenegro-James, Veterinary Pathobiology, was an invited participant in the Workshop on Tropical Diseases, which was cosponsored by the government of Venezuela, the World Health

Organization, and the Pan American Health Organization, March 10 to 12, Caracas, Venezuela.

Douglas B. Bauling, Agricultural Experiment Station, was a member of a team that developed plans for an Instructional Farm at the University of San'a, Yemem Arab Republic, March 20 to April 2. The project is sponsored by USAID and managed by the Consortium for International Development (CID).

Luis H. Camacho, Agronomy, visited the International Institute of Tropical Agriculture's regional soybean program in Goiania, and met with researchers at the National Soybean Center in Londrina, Brazil, the week of March 25.

Joseph A. Jackobs, Agronomy, examined the possibilities for soybean production in Jamaica, April 8 to 12.

Margo De Ley, Women in International Development, chaired a panel and presented a paper at the annual meeting of the Latin American Studies Association, April 18 to 20, in Albuquerque, New Mexico. Coauthored by Priscilla Handy, Sociology, Dr. De Ley's paper was entitled "Women's Kinship and Friendship Networks: Their Role in Undocumented Migration from Mexico."

Burton E. Swanson, Timothy Koehnen, Robert Raab, Mohamed Samy, and Carolyn Sands, INTERPAKS, attended the first

annual meeting of the Association of International Agricultural Education, April 24 to 26, Washington, D.C. Dr. Swanson served as founding chair of the Association and also served as conference chairperson. Mr. Koehnen presented a paper on intermediate agricultural education in Asia, Africa, and Latin America.

Richard E. Ford, Plant Pathology, will study and conduct research on seed transmission of plant viruses at the Virology Laboratory, Canada Department of Agriculture, Vancouver, British Columbia, May 1 to October 31, as part of his sabbatical leave.

Mary Frances Picciano, Foods and Nutrition, and John A. Milner, Food Science, will participate in an international workshop on Composition and Physiological Properties of Human Milk, May 29 to June 1, Kiel, Germany. Dr. Picciano will present an invited lecture entitled "Form and Distribution of Selenium in Human Milk: Factors Exerting an Influence." After the conference they both will lecture and meet with scientists at Warsaw's Agricultural University, Poland. Dr. Milner will speak on dietary arginine and pyrimidine biosynthesis, and on selenium and carcinogenesis, and Dr. Picciano on folacin and selenium nutrition during lactation and infancy.

VISITING RESEARCHERS

Bengt Erlingsson, Swedish University of Agricultural Sciences, Ultuna, arrived in mid-March for a two-month stay in Agricultural Economics. Mr. Erlingsson is performing a comparative study of marketing alternatives for Swedish and American hog and grain producers.

Kabal S. Gill, School of Agricultural Sciences, University of Zambia,

Lusaka, is working for six months with Doyle B. Peters, Agronomy and USDA, on response of divergent maize cultivars to water stress.

Jezie Alix Acorda, College of Veterinary Medicine, University of the Philippines, and Arturo Somatiza Arganosa, Livestock Research Department of the Philippine Council for Agriculture and Resources Research and Development (PCARRD), arrived on campus April 22 for a six-week program on cattle reproduction. They will work with Charles N. Graves, Dairy Science, and Darrel J. Kesler and Philip J. Dziuk, Animal Science.

Chen Zhao-ying, Beijing Agricultural University, China, will spend one year studying and conducting research in the College of Veterinary Medicine. Dr. Chen is interested in medical imaging technology and also has done some work in acupuncture.

Goran G. Anstrom, College of Veterinary Medicine, Swedish University of Agricultural Sciences, Uppsala, is a visiting professor for two months in Veterinary Clinical Medicine. Dr. Anstrom will participate in mastitis research programs.

Gregorio B. Begonia, University of the Philippines, Los Banos, is doing post-doctoral research under the direction of John D. Hesketh, Agronomy, until April 1986.

Imre Kadar, Research Institute for Soil Science and Agricultural Chemistry, Budapest, Hungary, arrived at UIUC in mid-April to study under Theodore R. Peck, Agronomy. Funded by a Fulbright Fellowship, Dr. Kadar will be here until August 1985.

Julien Berthaud, ORSTROM, France, arrived at UIUC in March to spend a year in Agronomy's Crop Evolution Laboratory working on various aspects of molecular plant systematics and genetic engineering.

SEMINARS

May 1 Results of the ZAMARE (Zambia Agricultural Research and Extension) Project Evaluation - Earl D. Kellogg, Office of International Agriculture. 4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

May 2 Natural Resources and Economic Development: The Persistent Legacy of Colonialism - Daniel W. Bromley, Department of Agricultural Economics, University of Wisconsin. 3:30 p.m., 426 Mumford Hall.
*Sponsored by Agricultural Economics, Economics, International Agriculture, International Programs and Studies, and Miller Committee.

May 3 Discussion on effects of colonialism on natural resources and economic development - Daniel W. Bromley, Department of Agricultural Economics, University of Wisconsin. 3:45 p.m., Levis Faculty Center Music Room, 919 West Illinois Street, Urbana.
*International Colloquium Seminar.

VISITORS RECENTLY ON CAMPUS

Ram Singh and Matthew Morey, Illinois State University, presented a seminar entitled "The Economic Contribution of Rural Children in Polygynous Families: Some Evidence from an African LDC" on April 11 to faculty in Family and Consumer Economics.

Yukio Yamamoto, Horticultural Science and Plant Physiology Department, Nagoya University, Japan, and Takafumi Tezuka, also from Nagoya University and currently on a two-year exchange at Cornell University, discussed nitrogen metabolism in plants, nitrogen succession, and bioengineering with James E. Harper, Agronomy and USDA, Richard H. Hageman, Agronomy, and Walter E. Splittstoesser, Horticulture, April 13 to 17.

Andreas Popischil, College of Veterinary Medicine, University of Munich, Germany, and currently a visiting scientist at the National Animal Disease Center, Ames, Iowa, visited the College of Veterinary Medicine on April 15 and 16, and presented a seminar on rotaviruses.

Max Lawrence, Bureau of Agricultural Economics, Australia, visited UIUC on April 23 as part of a U.S. tour and year in Washington, D.C. While on campus he presented a seminar comparing Australian and U.S. approaches to economic policy making.

VISITOR ON CAMPUS

Mohamed Mahmoud El Sayed, Centre for Agricultural Management Development in the Egyptian Ministry of Agriculture, is spending the week of April 29 at UIUC. His schedule is being arranged by Robert E. Brown, International Programs and Studies, 3017 Foreign Languages Building, 333-1990.

WID WORKSHOP

The Women in International Development Office is sponsoring a workshop for international women and U.S. women with international interests. Entitled "Women and Work in an International Context: A Workshop on Opportunities and Skill Development," it will be held May 4, 1985, in room 322 Illini Union from 8:30 a.m. to 3:30 p.m. Refreshments and free babysitting will be provided. The morning sessions will cover employment opportunities, and the afternoon sessions will deal with resume writing and interviewing skills. Cosponsored by the YWCA, the workshop is free and open to all UIUC women. For registration information contact the WID Office, 3022 Foreign Languages Building, 333-1977.

STUDENT PAPER COMPETITION

May 15, 1985, is the deadline for submission of papers written by students on topics related to Women in International Development. One \$150 prize will be awarded by the Office of Women in International Development. For topics of past winning papers and further information about the competition contact the WID Office, 3022 Foreign Languages Building, 333-1977.

SPANISH FOR AGRICULTURE

Spanish 141 "Elementary Spanish for Agriculture and Related Fields I" will be offered during the fall semester in 1985 for students in agriculture and related fields interested in acquiring Spanish-language competence for work, travel, or study. The course may be taken for humanities credit in the College of Agriculture or to satisfy the foreign language requirement in the College of Liberal Arts and Sciences. Spanish 142 will be taught in the spring. The course is open to

students with no prior study of Spanish or with one to two years of Spanish in high school. Faculty and graduate students are welcome as auditors if space allows. For more information contact Margo De Ley, 3022 Foreign Languages Building, 333-5287, or 333-1977.

1986-1987 RESEARCH FELLOWSHIPS IN INDIA

June 15, 1985, is the application deadline for 1986-1987 Advanced Research Fellowships in India. Twelve long-term (6-10 months) and nine short-term (2-3 months) awards are being offered. Awards are available in all academic disciplines, and scholars with limited or no previous experience in India are especially encouraged to apply. Application forms and further information are available from the Council for International Exchange of Scholars, attn: Indo-American Fellowship Program, 11 Dupont Circle, Suite 300, Washington, D.C., 20036-1257, telephone (202) 939-5472.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. Contact the Office of International Agriculture to receive your own copy of this Newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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June 1985, No. 85

THE TIPAN PROJECT

In November 1984, the U.S. Agency for International Development (USAID) awarded UIUC the implementation contract for a major institution development project in Pakistan. Southern Illinois University at Carbondale (SIUC) is collaborating closely with UIUC on the project. Named TIPAN (Transformation and Integration of a Provincial Agricultural Network), the project is located at the Agricultural University, Peshawar, Northwest Frontier Province, Pakistan. Designed to be completed in eleven years, TIPAN is divided into three phases. UIUC's contract is for the first four years (phase 1).

TIPAN is the largest contract ever awarded the College of Agriculture and among the largest at UIUC. Funded by USAID, the \$15.2 million budget for phase 1 will be augmented by additional support from USAID for physical plant development and by substantial funding from the government of Pakistan.

History of UIUC's Involvement. From April 1983 to October 1984, twenty-six UIUC and SIUC faculty members participated in designing TIPAN. The project was a collaborative effort with the Northwest Frontier Province Agricultural University (NWFP-AU); the architectural and engineering firm of Skidmore, Owings, and Merrill; and USAID's Mission to Pakistan. The goal is to create a dynamic, problem-solving, farmer-oriented center of teaching, research, and outreach that will link together to support agricultural development in the Northwest Frontier Province. Geographically almost three-quarters the size of Illinois, the province has a population of about 13 million people.

Implementation. UIUC, with SIUC and other cooperating universities, is responsible for carrying out three types of activities.



NWFP Agricultural University, Peshawar, Pakistan.

- University faculty members will work at NWFP-AU as specialists on long- and short-term assignments.
- Faculty from NWFP-AU will pursue M.S. or Ph.D. degrees and nondegree training at UIUC, SIUC, other U.S. universities, and international agricultural research centers.
- Textbooks, journals, reference material, supplies for teaching and research, and equipment to develop the experimental farm and outreach program will be purchased for NWFP-AU under the commodity procurement provisions of the contract.

Before the fall semester, four of the eleven long-term team members will be in Peshawar. The four team members are: Errol D. Rodda, agricultural engineering at UIUC, team leader and institution development specialist; Raymond G. Cragle, dairy science at UIUC, research program specialist; R. William Seiders, 4-H extension at UIUC, outreach specialist; and Martin Waananen, Assistant Dean for Resident Instruction at Washington State University, teaching program specialist.

Several long-term positions are yet to be filled: irrigation and water management, agricultural mechanization, dairy production, rural social sciences, learning resources center, communications production, and research station management.

There will be as many as 88 short-term assignments in Pakistan for consultants and to supervise the theses and dissertations of Pakistani students.

TIPAN and NWFP-AU. Through TIPAN, the faculty of NWFP-AU will receive advanced training. The curriculum will be revised to give students practical experience in agriculture and the campus will be expanded. The new library, computer center, and communications production unit will form the Learning Resources Center, which will serve teaching and research needs as well as support a mass media outreach program. Furthermore, the agricultural research staff of the NWFP Department of Agriculture will be merged with the Agricultural University and there will be major changes in administrative structure and procedures.

Pakistan and the world community. Pakistan occupies an important geopolitical position in South Asia. It is in the forefront of international attempts to obtain the withdrawal of Soviet troops from Afghanistan. A member of the Islamic community, Pakistan advocates peaceful resolution of conflicts in the Middle East and Persian Gulf. Improved living standards and a growing economy are prerequisites for Pakistan's continued ability to contribute to peace and stability in the region.

For more information about TIPAN call William N. Thompson at 333-5869, or Thomas A. McCowen at 333-6420. The mailing address for both is 113 Mumford Hall, 1301 West Gregory Drive, Urbana, Illinois 61801.



Adapted from Rand McNally.

INTERNATIONAL TRAVEL

In late April, **Gregory R. Noel**, Plant Pathology, surveyed nematode problems on sunflowers, soybeans, corn, tobacco, pineapple, and bananas in Zambia, and made plans for **Dennis Lawn**, graduate student in Plant Pathology, to conduct dissertation research as part of the ZAMARE project. While in Africa Dr. Noel visited the Farming Systems Kenya Project, which aids small-scale and subsistence farmers.

Charles L. Henderson, Animal Science, presented an invited paper on methods for determining genetic variance within a population at

the Workshop on Animal Breeding, University of Guelph, Ontario, Canada, April 1 and 2.

The Association of Applied Biologists' workshop on New Developments in Techniques for Virus Detection was held April 9 to 12 in Cambridge, England. **Cleora J. D'Arcy**, Plant Pathology, presented a poster on her luteovirus work at the workshop and also visited the Rothamsted Experimental Station.

Miodrag Ristic, Veterinary Pathobiology, attended a meeting at the Laveran Foundation in Annecy, France, from April 10 to 12. During the meeting, participants made plans for the 1986

International Congress on Malaria and Babesiosis.

Dr. Ristic participated in the International Asia and Pacific Conference on Malaria, Honolulu, Hawaii, from April 21 to 27.

Raymond A. Woodis, Agricultural Communications, spent April 22 to May 11 at the University of the West Indies, where he presented a workshop for communication technicians from the CAEP (Caribbean Agricultural Extension Project) countries. This was the second in a series of annual workshops.

Stanley E. Curtis, Animal Science, was an invited speaker at the Roche Nutrition Symposium, which is held in conjunction with the Guelph Nutrition Conference, Toronto, Canada, on April 30.

While in Europe in June, Dr. Curtis will lecture on animal welfare and environmental management at the Institute of Building Technology, Agricultural University of Norway, As; present a lecture entitled "Pig Environment: Prescription and Design" at the European Workshop on Intensive Pig Production; and visit the Animal Husbandry Department at the Agricultural University, Wageningen, Netherlands.

The first INTERPAKS case study and field test for the USAID research project on technology development, transfer, and utilization will be conducted in Malawi this summer. **Burton E. Swanson**, INTERPAKS, traveled to Nairobi, Kenya, and Lilongwe, Malawi, in May to prepare for the study.

Aslam S. Hassan, Veterinary Biosciences, is spending a month at the Department of Pharmaceutical Biochemistry, University of Uppsala, Sweden, to study techniques related to bile acid metabolism.

James E. Corbin, Animal Science, attended the Mexican Pet Food Nutrition Conference, visited pet food plants, and lectured to veterinarians in Mexico from May 18 to 27.

The Consortium for International Crop Protection (CICP) has asked **Michael E. Irwin**, Agricultural Entomology, to meet with government officials in Ecuador to help implement a national plan for integrated pest management, June 2 to 6. En route, Dr. Irwin will advise soybean pro-

ducers in Jamaica on integrated pest management practices.

John C. Siemens, Agricultural Engineering, will discuss machinery needs for soybean harvesting with officials of Jamaica Soy Products Industries, Kingston, June 3 to 7.

Joseph A. Jackobs, Agronomy, will visit soybean test sites in Colombia and discuss cooperative soybean activities with **Luis H. Camacho**, INT-SOY agronomist stationed in Colombia, CIAT (Centro Internacional de Agricultura Tropical), ICA (Instituto Colombiano Agropecuario), and IITA (International Institute for Tropical Agriculture) scientists, June 3 to 7.

The Department of Biochemistry of the Swiss Federal Institute of Technology, Zurich, has invited **Sorab P. Mistry**, Animal Science, to spend the month of June at the Institute as a visiting professor. Dr. Mistry will give lectures on metabolic regulation and will continue research on membrane proteins.

Attending the Fifth World Congress on Water Resources in Brussels, Belgium, from June 9 to 15, are: **David E. Chicoine** and **Sam H. Johnson**, Agricultural Economics, **Glenn E. Stout**, Institute of Environmental Studies, **W. H. C. Maxwell**, Civil Engineering, and **John R. Adams**, **Nani G. Bhowmik**, and **Krishnan P. Singh**, Illinois State Water Survey. Dr. Stout, who is Executive Director of the International Water Resources Association, and Dr. Chicoine were involved in program planning.

Two May graduates of the College of Agriculture will spend six months abroad beginning in June. **James Behrends** will go to Switzerland and **David Riecks** will go to India as IFYE (International 4-H Youth Exchange) participants.

The Illinois 4-H Ambassador Program will send two College of Agriculture undergraduates to Europe for six weeks this summer: **Janice Butler**, Textiles, Apparel, and Interior Design, will travel in the Netherlands and **Connie Schneider**, Agriculture, will travel in the United Kingdom.

Randall S. Ott, Veterinary Clinical Medicine, will deliver seminars on breeding soundness examination of bulls at the Laboratoire pour le Contrôle des Reproducteurs, Maisons-Alfort, France, June 15 to 26.

Harold W. Gonyou, Animal Science, will present a paper at the annual meetings of the Canadian Society of Animal Science, Prince Edward Island, June 23 to 29.

The NATO Advanced Study Institute on Iron in Soils and Clay Minerals will be held in Bad Windsheim, Germany, July 1 to 13. **Joseph W. Stucki**, Agronomy and Director of the Advanced Study Institute, will present a paper on iron in non-micaceous 2:1 phyllosilicates. Also attending from Agronomy are **Robert G. Darmody**, **Alvin H. Beavers**, and **Paul Lear**. The conference is sponsored by NATO with support from UIUC and NSF.

VISITING RESEARCHERS

Meiling Shen, a postdoctoral research associate from the PRC, is working with Diego Segre, Veterinary Pathobiology, from February 1985 to February 1986.

Mohamed A. Mehaia, King Saud University, Riyadh, Saudi Arabia, is a visiting professor in Food Science from May to September, working with Munir Cheryan. Dr. Mehaia received his Ph.D. from UIUC in 1983.

Sponsored by an International Atomic Energy Agency fellowship, **Florence K. Y. Kobusingye** of Uganda is visiting Veterinary Pathobiology for six months of research training on the practical application of radioimmunoassay in studies of animal production.

Joachim von Bulow, Universidade de Brasilia, Brazil, arrived at UIUC in May to work for one year with Johannes M. J. de Wet, Agronomy, on maize genetics.

VISITORS RECENTLY ON CAMPUS

Three International 4-H Youth Exchange (IFYE) participants visited campus from May 8 to 10: **Martin W. Baer**, West Germany, **Gina Laan**, Netherlands, and **Oswald R. Thomas**, Antigua. They met with David D. Pyle, Ann L. Rund, Gerald G. Gast, and Mary K. Munson, Cooperative Extension Service, James C. Schmidt, Horti-

culture, Michael A. Hudson, Agricultural Economics, and Gene C. McCoy, Dairy Science. The participants will live with 4-H host families throughout Illinois until July 15.

A dairy team from the **Bureau of State Farms**, China, visited the Department of Dairy Science on April 17 sponsored by the American Soybean Association. They discussed superovulation, embryo recovery and transfer, and micromanipulation of embryos with Charles N. Graves and Joel A. Lawitts, and toured the Dairy Research Farm with Sidney L. Spahr.

Bharati K. Patel, Chief Agricultural Research Officer in the Ministry of Agriculture and Water Development, Zambia, visited UIUC from April 29 to May 2. Dr. Patel is directly involved in the implementation of the ZAMARE (Zambian Agricultural Research and Development) project. She met with faculty and graduate students in Agronomy, Animal Science, Plant Pathology, the African Studies Program, Agricultural Experiment Station, Cooperative Extension Service, Office of International Agriculture, and Women in International Development Office.

M'Baye Kane Diaw, registrar, University of the Ivory Coast, and **Mande Fofana**, personnel service, Ivorian Civil Service, discussed the recently concluded ten-year training project between the Office of International Agriculture and the Ivory Coast Ministry of Agriculture with OIA staff on April 30. Sponsored by the African-American Institute, their itinerary at UIUC was arranged by Overseas Projects and Foreign Visitors.

Takio Yamada, Director of the LABO International Exchange Foundation, Tokyo, Japan, visited Ann L. Rund, State 4-H International Program Leader, on April 30 and May 1. The LABO Foundation is sending 60 youths to Illinois for the month of July as part of the Illinois-Japan 4-H exchange program.

Vincent Lokrou and **Berte Kama**, administrators at the Ecole Nationale Supérieure de Agronomie, Abidjan, Ivory Coast, discussed possible UIUC involvement in reorganizing the curriculum which leads to the Ingenieur Agronome degree with James L. Robinson, Dairy Science, and staff in the Office of International Agriculture on May 3.

Survey: How do you use the International Agriculture Newsletter?

Please take a few minutes now to help us evaluate the Newsletter.

1. Do you usually _____ throw it away without opening it
_____ glance at certain sections
_____ glance through the issue
_____ read it cover to cover

- | 2. Do you find some sections useful? | Yes | No | No opinion |
|--------------------------------------|-------|-------|------------|
| international activities | _____ | _____ | _____ |
| visiting researchers | _____ | _____ | _____ |
| seminars | _____ | _____ | _____ |
| visitors recently on campus | _____ | _____ | _____ |
| visitors coming to campus | _____ | _____ | _____ |
| upcoming conferences | _____ | _____ | _____ |
| fellowship and grant opportunities | _____ | _____ | _____ |
| new foreign students in agriculture | _____ | _____ | _____ |

3. What else would you like to see in the newsletter?

4. Other comments:

5. Are you _____ faculty/staff on campus
_____ faculty/staff off campus
_____ faculty/staff abroad
_____ student at UIUC with U.S. citizenship
_____ student at UIUC from abroad
_____ retiree
_____ former student, postdoctoral appointment, trainee, visiting researcher, or faculty
_____ educator, education administrator, or education group
_____ news media
_____ government
_____ farming or agribusiness
_____ none of the above but a friend of international agriculture

Please fill out the questionnaire this week and return it to:

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Thank you.

Sidney L. Spahr, Dairy Science, hosted a livestock trade group from China on May 16. The group included **Li Zhenqing**, China National Animal Breeding Import and Export Corporation, Beijing, **Chen Shutian**, Ministry of Agriculture, Beijing, **Wu Shuoxian**, senior veterinarian, and **Liu Guojiang**, livestock specialist, Sichuan Province. The group was sponsored by Ag World Exports, Bloomington, Illinois.

William J. Mantanyani, general manager, and **David Hanyana**, soybean specialist, Lint Company of Zambia, met with Agricultural Economics, Agronomy, Office of International Agriculture, and College of Commerce faculty on May 22 and 23. Mr. Mantanyani is in the United States for three months as an Eisenhower Exchange Fellow.

VISITORS COMING TO CAMPUS

On June 6 and 7, **Zoltan Kiraly**, Director of the Plant Protection Institute, Hungarian Academy of Sciences, will discuss the biotechnological aspects of creating cultivars resistant to diseases with College of Agriculture staff. Sponsored by FAO, Dr. Kiraly's schedule at UIUC is being arranged by Jack D. Paxton, Plant Pathology, N-519 Turner Hall, 333-4864.

Ollie Noren, Vice President and Senior Principal Research Officer, Swedish Institute of Agricultural Engineering, Uppsala, Sweden, will visit the Agricultural Engineering Department on July 5. His major interest is improving conditions for operators of farm machinery. Arthur J. Muehling, 332-E Agricultural Engineering Sciences Bldg., 333-9313, is arranging his schedule.

NEW WID ACTING DIRECTOR

Barbara A. Yates, Educational Policy Studies, stepped down from the directorship of the Office of Women in International Development (WID) on May 15 to resume full-time teaching and research. Dr. Yates has built a strong program since she became the first WID Director at UIUC in 1980. UIUC's WID Office is currently ranked among the top five in the United States. **Frances M. Magrabi**, Family and Consumer Economics, will be Acting Director for the 1985-1986 academic year.

DAIRY SCIENCE INTERNATIONAL RECEPTION

Faculty and staff are invited to the International Reception of the 80th Annual Meeting of the American Dairy Science Association. The reception will be held on Tuesday, June 11, from 4:00 to 5:30 p.m. in room 210 Illini Union.

The meetings, which run from June 9 to 12 on the UIUC campus, are open to everyone with an interest in dairying. More than 1,800 participants from the United States and abroad are expected to attend and present approximately 500 papers. The Fourth North American Symposium on Cytogenetics and Cell Biology of Domestic Animals will be held concurrently with the dairy science meetings.

For program details call Michael F. Hutjens at 333-2928.

PUBLICATIONS OF NOTE

A limited number of the conference proceedings "**Third World Development: From Food Deficiency to Food Sufficiency**," (Iowa-Illinois World Food Conference, November 1984, Davenport, Iowa) are now available from J. Terry Iversen, Continuing Education and Public Service. Campus mail requests should be sent to 105 Illini Hall and off-campus requests to 205 Arcade Building, 725 South Wright Street, north wing, Champaign, Illinois 61820; telephone (217) 333-1465.

African Women Link is a new development newsletter aimed at linking individuals, groups, organizations, and agencies concerned with development and, in particular, African women's development. Available in English and French editions, AWL is produced with support from the Pathfinder Fund. To inquire about a subscription write to Ms. Elizabeth Okwenje, P.O. Box 50795, Nairobi, Kenya.

BOOKS FOR CHINA

The Foundation for Books to China, 601 California Street, San Francisco, California, 94108, telephone (415) 765-0664, will arrange to send educational material to the People's Republic of China. Anyone wishing to contribute material should call the Foundation. The donor is asked to pay mailing costs to California.

BOOKS FOR ZAMBIA

Faculty in Agricultural Engineering and Food Science have donated books and journals to the Library at the University of Zambia, Lusaka. If you have material to donate to libraries in developing countries, call James B. Sinclair, Plant Pathology, at 333-6588, N-519 Turner Hall.

1986-1987 FULBRIGHT SCHOLAR PROGRAM

Application deadlines for the 1986-1987 Fulbright Scholar Program have been announced: June 15, 1985, for Australia, New Zealand, Fiji, Papua New Guinea, India, Latin America, and the Caribbean; September 15, 1985, for Africa, Europe, and other countries in Asia; November 1, 1985, for Junior lectureships to France, Germany, Italy, and Spain; December 31, 1985, for NATO Research fellowships; and February 1, 1986, for Spain research fellowships, France and Germany travel, and supplementary awards.

The 1986-1987 program includes opportunities in all disciplines and for all academic ranks, 300 grants to support scholarly research abroad,

700 grants for university lecturing abroad, openings in more than 100 countries, stays from three months to a full academic year in duration, and multi-country research possibilities in several regional programs.

Some countries have awards which are not restricted by discipline. India, Ireland, Nigeria, and Romania have requested agriculture but have not specified a field. Other requests for agriculture include:

Australia — entomology

Greece — agricultural education or extension

India — agricultural economics, rural development

New Zealand — agricultural business, agricultural cooperatives (farm management)

Norway — floriculture, agronomy

Sudan — rural economics

Taiwan — agricultural extension

Thailand — agronomy

Uruguay — management of cooperatives

Yugoslavia — wheat genetics

For more information write or call the Council for International Exchange of Scholars, 11 Dupont Circle, N.W., Box A, Washington, D.C. 20036-1257, telephone (202) 939-5401.

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July 1985, No. 86

INTERPAKS

INTERPAKS, the International Program for Agricultural Knowledge Systems, is an educational and technical assistance program in the Office of International Agriculture, College of Agriculture, UIUC. Established in 1982, the purpose of INTERPAKS is to support agricultural development by improving the transfer and utilization of knowledge in developing countries.

INTERPAKS brings a holistic approach to the processing, transfer, and use of agricultural knowledge and technology through a unique combination of academic disciplines from three colleges and schools. At present, about twenty-five faculty members participate on a regular basis in the research and instructional programs. Primary fields involved are agricultural communications, agricultural economics, agricultural education, extension administration and education, library and information science, and rural sociology. INTERPAKS taps the strengths and perspectives of other disciplines and programs as needed to produce an integrated approach in agricultural development.

What INTERPAKS can do. INTERPAKS specializes in four areas:

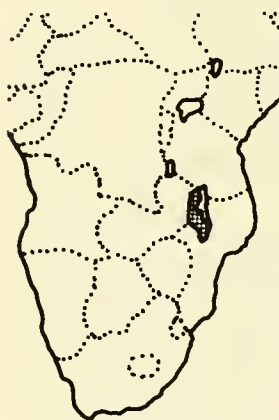
- Technical assistance for the transfer and use of agricultural information. This involves international activities such as improving extension services, vocational agricultural programs in schools, library and information services, and links with research and private-sector organizations.
- Teaching programs and services. This includes tailored, interdisciplinary degree programs, and nondegree study such as short courses at UIUC or in other countries.

- Research and surveys. INTERPAKS conducts special studies in cooperation with national programs and international agencies as a basis for improving agricultural knowledge systems.
- Information about agricultural knowledge systems. INTERPAKS has established a computerized, worldwide literature base on agricultural knowledge systems and technology development and transfer. As well, there is a newsletter and a growing series of publications.

International recognition. INTERPAKS has rapidly gained recognition for its international extension work. In 1983, the Food and Agriculture Organization (FAO) of the United Nations asked INTERPAKS to revise the FAO Extension Manual. Also in 1983 the Farming Systems Support Project at the University of Florida asked INTERPAKS to join it in developing a set of guidelines for integrating the research and extension functions in farming systems projects. In 1983 and 1984, members of the INTERPAKS faculty engaged in forty-two months of technical service, ranging from brief consultations to a two-year assignment on a USAID project in the Caribbean.

Contract for Improved Technology Development and Transfer Model. In February 1984, INTERPAKS signed a five-year, US\$1.7 million contract with USAID to create a model to evaluate and improve agricultural technology development, transfer, and feedback. The model involves both conceptual and empirical activities. Around the world there are different systems, circumstances, philosophies, and goals. INTERPAKS staff theorize that a comparative examination of some of these systems will contribute to the creation a diagnostic tool that will be useful

to national research and extension practitioners, policy makers, international donors, and farmers. Burton E. Swanson, Associate Director, leads the project, aided by the INTERPAKS research team at UIUC and an external advisory committee of representatives from U.S. universities.



Contract activities include conducting six to eight worldwide case studies, advisory seminars, and an international conference to evaluate tentative models for improved technology development and transfer. The first case study of national systems of agricultural technology development and transfer will be carried out in Malawi in August.

Malawi is the site of the first INTERPAKS case study.

Educational Activities. Short courses are given both on campus and overseas. In 1984, eight administrators from six countries attended a five-week short course held at UIUC entitled "Organization and Operation of Agricultural Extension Services in the International Setting." The course will be given again in October 1985. In cooperation with the Zambian Ministry of Agriculture and USAID, INTERPAKS taught an intensive, one-week course covering new extension methods and teaching and communications skills at two locations in Zambia in 1984. The course was attended by provincial and national extension personnel and college faculty.

Representatives of INTERPAKS at UIUC and of international extension at Colorado State University held a conference in July 1983. Topics discussed included the latest theories in knowledge transfer, theoretical capabilities of an ideal technology transfer model, and constraints to success as experienced around the world.

Graduate students at UIUC are involved in INTERPAKS through interdisciplinary degree programs encompassing extension education, agricultural education, agricultural communications, and rural sociology. At present, seven graduate students in extension education and agricultural education are working on degrees focusing on technology transfer, and another dozen are in related programs.

INTERPAKS publications. To encourage and disseminate research and to create a world forum for the discussion and exchange of ideas, INTERPAKS publishes items about international agricultural extension. These include:

The Cooperative Extension Service — An Adaptable Model for Developing Countries by J. B. Claar, D. T. Dahl, and L. Watts (INTERPAKS Series No. 1)

The Role of the Information Specialist in the Dissemination of Agricultural Information by A. Sattar and F. W. Lancaster (INTERPAKS Series No. 2)

Problems Facing National Agricultural Extension in Developing Countries by V. A. Sigman and B. E. Swanson (INTERPAKS Series No. 3)

Knowledge Transfer in Developing Countries — Status, Constraints, Outlook, Proceedings of a Conference on International Extension held at Steamboat Springs, Colorado, July 1983.

The INTERPAKS newsletter, **INTERPAKS Interchange**, is issued three times a year. Its purpose is to share information with leaders of knowledge transfer systems in other countries and to establish a dialogue for enhancing agricultural development through more effective extension systems. There are nearly 1,000 names on the mailing list, most of them from overseas.

INTERPAKS today. Priority activities include the USAID contract with its worldwide case studies and on-going educational programs, including informal courses overseas and degree and short-course programs on campus.

Beginning in July, John L. Woods will be the new Director of INTERPAKS. Dr. Woods has extensive overseas experience and has published widely on rural development, particularly from the perspective of agricultural communications and technology transfer. He replaces John B. Claar, who has served as INTERPAKS Director on a half-time basis since its inception. (Eldon L. Johnson, University of Illinois Vice President emeritus, was Director of INTERPAKS for ten months while Dr. Claar was Acting Dean of the College of Agriculture.) Dr. Claar will continue working in INTERPAKS on technical assistance and academic matters relating to extension.

For copies of INTERPAKS publications or more information about INTERPAKS contact John B. Claar or, after July 21, John L. Woods at 113 Mumford Hall, 1301 West Gregory Drive, Urbana, Illinois 61801, telephone 333-5831.

NOTES FROM THE DIRECTOR

My first one hundred days in the Office of International Agriculture (OIA) have just elapsed and the time has gone more quickly than I could have imagined. It has been an enjoyable time and a productive one. Without doubt, the Office of International Agriculture at UIUC and its programs are among the best in the country. This is due to the excellent work by the faculty and administration in the College of Agriculture and the strong foundation and dedicated staff assembled by William N. Thompson, former director. These two components are the basis for future success.

First, a report on my activities. To obtain an overview of programs and faculty resources in agriculture, I have met with most of the heads of departments, offices, and divisions as well as OIA staff, collaborating faculty, and the administration. To reach out to the state, I contacted forty-eight agricultural or commodity groups and expressed a willingness to discuss the establishment of mutually beneficial programs. About a dozen have responded, some activities have taken place and others are being planned.

I've received good advice from both the International Agricultural Policy Committee and the International Agricultural Advisory Committee, especially regarding their roles and future directions.

We continue to have strong ties with Southern Illinois University-Carbondale (SIUC) and the University of Maryland-Eastern Shore (UMES), both of whom collaborate with us on international projects. I made two trips to SIUC and one to AID offices in Washington, D.C., with UMES staff. A Joint Memorandum of Understanding and a Program Support Grant with UMES are being developed.

Current programs. Our ZAMARE (Zambia Agricultural Research and Extension) project received an excellent rating at its three-year (mid-program) review. Errol D. Rodda, the team leader and institution development specialist of the TIPAN (Transformation and Integration of a Provincial Agricultural Network) project, is on-site in Peshawar, Pakistan, and the specialists for research, outreach, and teaching will arrive this summer with their families. INTERPAKS (International Program for Agricultural Knowledge Systems), INTSOY (International Soybean Program), and our participation in the MUCIA (Midwest Universities Consortium for Interna-

tional Activities) project in Belize continue to operate well.

Future projects. Through MUCIA, and in cooperation with the College of Veterinary Medicine, we responded to a request for proposals for a new collaborative research and training program in India. We also expressed interest in a proposal to establish a Central American College of Agriculture for the Humid Tropics, which will be based in Costa Rica. Before my arrival, interest was expressed in a Jamaican agricultural education program. This proposal is being prepared under the direction of the Division of Agricultural Education, Department of Vocational and Technical Education.

It may be well to point out that there are many proposals on which we do not bid, some in spite of repeated requests for our participation. In the past several weeks, we declined requests for our participation in agricultural development programs in Bolivia, Niger, Saudi Arabia, and Senegal. We felt these proposals lacked potential for long-term research involvement of our faculty or were simply requests from USAID for short-term consultants.

Staff developments. It is my pleasure to announce that the title for John W. Santas was officially changed to Assistant Director of International Agriculture for Training to reflect his increased responsibilities in the past several years. Dr. Santas' activities as Training Officer have been regarded, both nationally and internationally, as one of the keys to our success in international agriculture.

We are also pleased to announce that John L. Woods will join us on July 21 as Director of INTERPAKS. Dr. Woods has had a very successful career with the United Nations Development Program in Thailand and we look forward to having John, his wife Char, and their children Van (age 13) and Sheri (age 10) with us. John B. Claar will continue working with us as giver of sage advice and counsel (and humor).

We are at an exciting time in our program. Let's keep working together to make it even more exciting and productive. I invite you to call me at 333-6420 to discuss our programs and role in the College.

John J. Nicholaides, III

INTERNATIONAL ACTIVITIES

Jackson County Extension Service Office has been involved in several international programs recently.

- **Ombo Jim Lawson**, Ph.D. student in agricultural education at Southern Illinois University-Carbondale (SIUC), completed an International Extension Student Internship with the office. Mr. Lawson spent one day per week during the spring semester with **Robert W. Frank**, Extension Adviser-Agriculture, observing extension service program planning and execution. Before coming to the U.S., Mr. Lawson worked for fifteen years in the extension service in Nigeria. In the past ten years, eight international students have participated in the internship program with the Jackson County Extension Service.
- **Yi-Yi Lin**, Section Chief, Investigation and Research Division, Commodity Price Supervisory Board, Ministry of Economic Affairs, Taiwan, studied grain marketing at SIUC last semester. The Jackson County Extension Service took Mr. Lin to visit river grain terminals, a farm, a grain elevator, and a soybean processing plant.
- The Jackson County Extension Service arranged for **Cedric Sicard** and **Yves de Solages**, Illinois State University students from France, to visit three farms in Jackson County. The students were gathering information for a report on the potential for wheat production in Illinois.
- A delegation of ten provincial Education Department directors from China visited SIUC and Jackson County in March. The Jackson County Extension Service arranged for the group to visit a local farm and home. In addition, **Glenn Seeber**, Extension Adviser-Youth, discussed the functions of the cooperative extension service and its educational programs.

Jean M. Due, Agricultural Economics, presented a paper entitled "Women Made Visible: Their Contributions to Farming Systems and Household Incomes in Zambia and Tanzania" at the Association for Women in Development meeting, Washington, D.C., April 25 to 27.

At the invitation of The Chicago Farmers, **John J. Nicholaides**, International Agriculture, participated in their annual meeting on May 4. Also attending were the Secretary of Agriculture for the European Economic Community and Clayton Yeutter, newly appointed U.S. Trade Representative.

Lowell D. Hill, Agricultural Economics, and **John J. Nicholaides**, International Agriculture, attended a meeting with Illinois exporters sponsored by the Illinois Department of Agriculture, May 9, in Springfield.

D. Homer Buck, Aquatic Biology Section of the Illinois Natural History Survey and Animal Science, was in Israel from May 14 to 20 to meet with co-investigators on a project to study the use of stable isotopes of carbon as naturally occurring tracers in the aquaculture food web. The study is funded by a BARD (Bi-National Agricultural Research Development) grant. While in Israel, Dr. Buck also visited the Institute of Animal Sciences at the Volcani Center, Bet Dagan, and the Hebrew University in Jerusalem.

Attending the AUSUDIAP (Association of U.S. University Directors of International Agricultural Programs) meeting, May 29 to 31, Athens, Georgia, were **John J. Nicholaides**, **Earl D. Kellogg**, **Thomas A. McCowen**, **Harold E. Kauffman**, and **William N. Thompson**, Office of International Agriculture, and **Sam H. Johnson**, Agricultural Economics. Dr. Kellogg presented a paper entitled "Important Issues Related to Public Education on University Involvement in International Agriculture Activities," and Dr. Kauffman a paper on building development assistance networks. Dr. Johnson presented a paper on applications of new technology systems to international programs in a session chaired by Mr. McCowen.

Stephen M. Ries, Plant Pathology, participated in the Sixth International Conference on Plant Pathogenic Bacteria, College Park, Maryland, June 2 to 7.

Sandra Brown, Forestry, and **Mark Scheffel**, graduate student in Forestry, will collect wood samples from decomposing logs in forests and pastures in Costa Rica from June 9 to July 3. The work is part of a study to measure decomposition rates of woody debris for a project funded by the U.S. Department of Energy entitled "Role of Tropical Forests in the Global Carbon Cycle."

At the request of the Jamaica Soy Products Industries, **Marshall D. McGlamery**, Agronomy, visited Jamaica from June 10 to 14 to advise on weed control in soybeans.

Nelson L. Buck, Agricultural Engineering, participated in the International Conference on Soil Dynamics, Auburn, Alabama, June 16 to 19.

Earl D. Kellogg, Office of International Agriculture, gave an invited paper on the effect of increased agricultural production on agricultural imports in developing countries at the quarterly meeting of the Advisory Committee on Voluntary Food Aid, Minneapolis, Minnesota, June 27.

Dr. Kellogg is an invited participant in the African Food Crisis Round Table, June 30 to July 6, Nairobi and Mombasa, Kenya. Sponsored by the Eastern and Southern African Management Institute in collaboration with USDA and USAID, the round table will be attended by secretaries from ministries of agriculture, economic planning, and finance, and other agricultural specialists. The group will prepare strategies to overcome the current African food crisis and devise ways to avoid future occurrences. The invitation to participate is an honor both to Dr. Kellogg and UIUC.

Poo Chow, Forestry, will present an invited paper on characteristics and chemical properties of four-year-old tropical tree species at the Ninth World Forestry Congress in Mexico City, Mexico, July 3 to 9. The paper is coauthored by E. B. Lucas, University of Ibadan, Nigeria. Also attending the conference are **Sandra Brown** and **Mark Scheffel**, Forestry.

The 1985 American Society of Interior Designers' Education Foundation scholarship was awarded to **M. Allison Carll**, Textiles, Apparel, and Interior Design. Dr. Carll, chosen from interior design educators throughout the United States, will study the architecture and contents of thirty historic houses in England during a summer research course given by Attingham School, July 4 to 22. Among the houses to be visited this year are Arundel Castle, the Royal Pavilion at Brighton, Hardwick Hall, and Kedleston Hall.

The Midwest Universities Consortium for International Activities (MUCIA) has selected **Michael E. Irwin**, Agricultural Entomology and Illinois Natural History Survey, to serve as a short-term consultant in plant protection at the North Sumatra University Technical Assistance Project in Medan, Indonesia. His assignments are for five weeks in June and July 1985, and eleven weeks in 1986.

Darrel J. Kesler, Animal Science, will present an invited paper entitled "Prolonged Release of Gonadotropin Releasing Hormone Enhances Subsequent Pituitary and Ovarian Responses of Postpartum Anestrous Ewes" at the International Controlled Release Society meetings, Geneva, Switzerland, July 1 to 18.

The American Soybean Association has asked **Gilbert R. Hollis**, Animal Science, to serve as a consultant in swine nutrition and management in Colombia, Dominican Republic, Ecuador, Jamaica, Peru, and Venezuela from July 6 to 26. Dr. Hollis will present seminars and make farm visits.

The Office of Women in International Development (WID) was awarded a Fulbright-Hays group travel grant for a WID team to spend six weeks, beginning July 11, in India developing curriculum material on women in development. **Frances M. Magrabi**, Family and Consumer Economics, is the group leader. Other team members are **Navaz Bhavnagri**, Elementary and Early Childhood Education, **Berenice A. Carroll**, Political Science, **Sharon Hart**, Cooperative Extension Service, **Ellen Johnson**, Anthropology, and **Barbara A. Yates**, Educational Policy Studies.

Ann F. Rund, Cooperative Extension Service, will tour Japan with twenty-six Illinois 4-H members, ages 12 to 18, from July 20 to August 22. Illinois 4-H will host sixty Japanese children during the same period. This exchange program with Japan began in 1974.

James E. Corbin, Animal Science, will address the Korean Feed Manufacturer's Association annual meeting, July 29 to August 2, in Seoul. Dr. Corbin, who is representing the American Soybean Association, will discuss nutrition in dogs and the utilization of soy protein by dogs.

AUSUDIAP RECOGNITION

William N. Thompson, recently retired Director of International Agriculture, was presented with a Distinguished Service Award at the AUSUDIAP (Association of U.S. University Directors of International Agricultural Programs) meeting, May 29 to 31, Athens, Georgia. The award is given for demonstrated public service, innovative contributions, and length of service in interna-

tional work and in AUSUDIAP. During the awards ceremony, Dr. Thompson was cited for his leadership of the International Soybean Program (1973-1981) and the Office of International Agriculture (1978-1984). "During his tenure . . . (UIUC's) international agriculture program has been widely recognized as one of the premier programs of its type in the United States." Dr. Thompson now works on the TIPAN (Transformation and Integration of the Provincial Agricultural Network/Pakistan) project on a part-time basis.

VISITING RESEARCHERS

Zou Sixiang, Nanjing Agricultural College, Nanjing, China, will be a visiting scholar conducting research under the direction of Bruce L. Larson, Dairy Science, from May 1985 through May 1986. The research is on the biosynthesis of milk.

Amil Kumar Sharma will study soybean production and extension programs with INTSOY staff and other College of Agriculture soybean scientists from July 1 to 26. Mr. Sharma is sponsored by the Cooperative League of the USA (CLUSA).

Eva Zdarkova, entomologist at Polytechna Pzo, Czechoslovakia, is working on flight energy utilization of aphids in the laboratory of Michael E. Irwin, Agricultural Entomology and Illinois Natural History Survey, until December 1985.

Ayse Kaypmaz, Istanbul University, Aksaray-Istanbul, Turkey, arrived at UIUC in June to spend one year working with Eric Vimr, Veterinary Pathobiology, on a study of *Escherichia coli*.

VISITORS RECENTLY ON CAMPUS

Bernard Charley, a veterinarian in the Department of Virology and Immunology, Institut National de la Recherche Agronomique, Paris, France, visited Keith W. Kelley, Animal Science, from May 17 to 19. Dr. Charley presented a seminar entitled "Nonspecific Immunity in TGE Infections: Porcine Natural Killer Activity and its Modulation."

Orville G. Bentley, Assistant Secretary for Sci-

ence and Education, USDA, and former Dean of the College of Agriculture, was presented with the Alumni Association's 1985 Distinguished Service Award during the graduation ceremony on May 19. While on campus Dr. Bentley met with faculty and friends in the College.

A group of nine international students from **Burma** and **Equatorial Guinea** currently enrolled at Western Illinois University visited the Office of International Agriculture, the Agricultural Experiment Station, and the university research farms on June 5. They were particularly interested in the research and international dimensions of the College of Agriculture. The group was escorted by Juanita M. Bryan, adviser to AID agricultural students in the College of Applied Sciences at WIU.

Richard Gibbins, Quidhampton Farm Ltd., Overton, Basingstoke, Hampshire, England, discussed the use of crop residue as livestock feed from June 11 to 13 with Larry L. Berger, Animal Science, S. Iqbal Shah, visiting scholar in Animal Science, Jay R. Brown, Cooperative Extension Service, Victor N. Smith, Region 5 (Macomb) Extension Specialist-Livestock, and Jack Wok, Jersey County farmer. Mr. Gibbins also visited farms in Sigel and Greenville and a feedlot in Taylorville, Illinois.

Andrzej Tabiszewski, Deputy Director, Branch Division for Mechanization of Crop Production, Institute for Agricultural Construction, Mechanization, and Electrification, Poland, discussed farm safety and crop production equipment with Donnell R. Hunt, Robert A. Aherin, and John W. Hummel, Agricultural Engineering, and Harold E. Kauffman, INTSOY, on June 12.

Two agro-industrialists from St. Gallen, Switzerland, **Albert H. Traber** and **Christoph Kaufmann**, visited campus on June 12 and toured swine research farms with Aldon H. Jensen and Robert A. Easter, Animal Science.

Jerónimo Rodriguez, an International 4-H Youth Exchange participant from Portugal, attended an Illinois 4-H Conference and met with Ann F. Rund and Mary K. Munson, Cooperative Extension Service, from June 19 to 21. Mr. Rodriguez will live on an Illinois farm until July 15.

Brian May, Head of Silsoe College, Bedford,

England, visited the Department of Agricultural Engineering on June 20. He was accompanied by William Harriott, past president of the American Society of Agricultural Engineers.

VISITORS COMING TO CAMPUS

Five Italian farm youths, **Paola Bedini**, **Manuela Buratti**, **Stegano Rigoni**, **Glauco Soresina**, and **Maurizio Zacomer**, will arrive in Illinois on July 9 to participate in the 4-H Ambassador Program. Ann L. Rund, Cooperative Extension Service, will spend several days with them on campus before sending them to host families in Illinois for a month's stay.

NEW INTERNATIONAL STUDENTS

The College of Agriculture welcomes the following new foreign graduate students to the University of Illinois at Urbana-Champaign:

AGRICULTURAL ECONOMICS

Graciela Berta-Brun, Argentina, production economics; **Rajasekar Mariappan**, India, finance.

AGRONOMY

Patrick Agbu, Nigeria, soil reclamation; **Rex Bernardo**, Philippines, corn breeding.

ANIMAL SCIENCES

Sean F. Arkins, Ireland, reproductive physiology.

FAMILY AND CONSUMER ECONOMICS

Sang Hee Cha, Korea, family consumption economics; **Kasmir Ihee**, Nigeria, family consumption economics.

HORTICULTURE

Siti Hassan, Malaysia, vegetable production; **Maurice Jangulo**, Zambia, seed physiology and plant breeding; **Haibo Liu**, China, turf grass; **Tsai-Mu Shen**, flower physiology, Taiwan.

PLANT PATHOLOGY

Liu Zonglin, China, seed pathology.

JAMAICA AGRICULTURAL EDUCATION PROJECT

UIUC, in collaboration with Purdue University and Florida A and M University, has submitted a

technical proposal to USAID for the Jamaica Agricultural Education Project. Written by Leon A. Mayer, Vocational and Technical Education, and Burton E. Swanson, Agricultural Education, the proposal will involve faculty in the College of Education and College of Agriculture. There are opportunities for several short-term consultants. For more information call or write Leon A. Mayer, 355 Education Building, 1310 South Wright Street, Champaign, IL 61820, telephone 333-2775, or Burton E. Swanson, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, IL 61801.

CONFERENCE ON GENDER ISSUES IN FSR/E

An interdisciplinary conference entitled "Gender Issues in Farming Systems Research and Extension" will be held in Gainesville, Florida, from February 26 to March 1, 1986, sponsored by the Women in Agriculture Program of the University of Florida. Conference sessions will address the theory, methods, and policy related to farming systems research and extension, comparing African, Latin American, and other regional experiences. Information about the conference is available from Dr. Marianne Schmink, Center for Latin American Studies, 319 Grinter Hall, University of Florida, Gainesville, Florida 32611, telephone (904) 392-0375.

NEWSLETTER SURVEY

Thanks to all of you who so promptly returned the questionnaire on the International Agriculture Newsletter. We appreciate your comments and questions, and will respond to some of them in future issues.

To summarize, 30% of you read the newsletter cover to cover, 59% glance through the entire issue, 7% glance at certain sections, and 4% throw it away without opening it. The section found most useful was International Activities, which received 91% yes votes. Other sections and their yes votes are: Seminars, 88%, Upcoming Conferences, 84%, Visiting Researchers, 79%, Visitors Coming to Campus, 77%, Fellowship and Grant Opportunities, 77%, Visitors Recently on Campus, 66%, and New International Students in Agriculture, 62%.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. Contact the Office of International Agriculture to receive your own copy of this Newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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International Agriculture Newsletter

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

College of Agriculture and College of Veterinary Medicine, University of Illinois at Urbana-Champaign
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August 1985, No. 87

ZAMARE

In a recent Agency for International Development report, the Zambia Agricultural Research and Extension (ZAMARE) project received a high rating on its mid-project evaluation. UIUC is the lead institution in this five-year project. Southern Illinois University-Carbondale (SIUC) and the University of Maryland, Eastern Shore (UMES), collaborate. Supported by the Government of Zambia and the U.S. Agency for International Development (USAID), ZAMARE is implemented by Zambian and U.S. scientists.

ZAMARE will assist the Government of Zambia in its efforts to improve the welfare of small-scale farmers and increase national food production through the development and adaptation of technology. Activities are designed to increase the effectiveness of the extension service and strengthen the agricultural research capacity of the Ministry of Agriculture and Water Development (MAWD).

Zambia today. The development of copper and cobalt mining, the basis of Zambia's economy and source of 95% of Zambia's foreign exchange, has overshadowed agricultural development in terms of foreign and domestic resource investment. However, declining world copper prices and mining reserves have resulted in higher priority being given to agricultural development, especially in the small farm sector.

Principal crops in Zambia are maize, sugarcane, cassava, millet, cotton, and sorghum. Livestock production includes cattle, sheep, goats, pigs, and poultry. In recent years, agricultural production has only grown at a rate of 1% per year while population has grown at an annual rate of 3.1%. The World Bank estimates that agricultural production will need to grow at an annual rate of at least 4% to keep ahead of the



Ronald G. Dedert at Kabwe Research Station, Zambia.

demand for agricultural products. Drought conditions from 1979 to 1984 and inadequate expansion of food production have led to increased food imports.

Zambia has the highest rate of urbanization (40% to 45%) of any country in tropical Africa. In the past, government policy was directed toward satisfying the food requirements of the urban sector through subsidized food prices. This had a negative effect on economic growth in rural areas. More recently, subsidies were removed from some commodities and farm gate prices increased.

Commodity research teams (CRT) have been developed by MAWD for most crops grown in Zambia. Research is conducted primarily at agricultural research stations and focuses on improved cultivars, management practices, and yield constraints.

MAWD requested that ZAMARE staff work with CRT's in cereals (maize) and oilseeds (soybeans and sunflowers). ZAMARE team members

are Paul T. Gibson, SIUC, maize breeder; Jagmohan Joshi, UMES, soybean breeder; Val J. Eylands, UIUC sunflower agronomist; and Seydou Sanogho, University of Hawaii's NifTAL project, soil microbiologist. National cultivar testing systems were initiated for these crops and three cultivars were released in 1984.

Adaptive research planning teams (ARPT) in MAWD link research, extension, and farmers. They work with Zambia's extension personnel on problems related to specific geographical areas and help bridge the gap between research and extension.

MAWD requested ZAMARE assistance in staffing the ARPT for Central Province. ZAMARE members are Robert E. Hudgens, SIUC, agronomist, and Ronald G. Dedert, UIUC, research extension liaison officer. (Alfred G. Harms, farming systems economist from UIUC, finished his two-and-a-half year tour early in 1985 and a replacement is being arranged to bring the team up to full strength.) They developed a program for farm-level testing which includes experiments on crop management practices. In 1984, approximately 2,400 people were reached through extension training programs conducted at district, regional, and national levels. Field days and meetings for farmers, extension workers, and government leaders have been the most effective in-service training tool and the most cost effective.

Team leader James F. Ragin from UMES works closely with the research and extension directors in MAWD. He also serves as the communications link between the Government of Zambia and USAID about ZAMARE activities.

Training and workshops. An important aspect of ZAMARE involves the upgrading of staff capability within MAWD through advanced academic and technical training. Long-term academic training in U.S. institutions, short-term technical training and study tours, and in-service training are all components of this program.

Workshops on teaching and communication skills were held in Kabwe for provincial extension officers and in Lusaka for college and university faculty who teach potential extension employees.

Zambia's research and extension staff have helped identify Zambians for both short-term technical and long-term academic training programs. Twenty-one participants are enrolled in



degree programs in U.S. universities and eleven have completed their studies and returned to Zambia to participate in ZAMARE. Eleven are currently enrolled in short-term training and fifty-nine have completed specialized training programs. These research and extension personnel will make significant contributions to the betterment of Zambian agriculture.

ZAMARE supports special studies by graduate students and consultants. For example, graduate students from UIUC are studying *Pyrenochaeta* leaf spot on soybeans. Yield losses of up to 50% have been reported from some fields. Other students are studying the noneconomic factors affecting decision-making by farmers. Support is also given to students and faculty at the University of Zambia for research.

Zambia and ZAMARE. ZAMARE staff work with Zambian colleagues and are integrated into MAWD's research and extension organization. Building on what already has been established, an excellent base of research and information is emerging.

Excellent progress has been made toward achieving the objectives of the project. Most notable is training. Originally, 50 months of nondegree training were planned. At the mid-point, more than 102 months of nondegree training have been provided to Zambian scientists. The success of the project has led to activities and involvement beyond the scope of the design paper.

For more information about ZAMARE call Earl D. Kellogg at (217) 333-6337, or Thomas A. McCowen at (217) 333-6421. The mailing address for both is 113 Mumford Hall, 1301 West Gregory Drive, Urbana, IL 61801.

NICHOLAIDES' NOTES

As many of you have noted, we recently broadened the content of the newsletter to include a feature article and response has been favorable. This feature will continue, not only for project overviews, but also for coverage of related developments in the College and the University.

We invite all of you to submit items for the newsletter. Some people indicated that their departments do not receive adequate coverage. This is due to lack of information, not preferential culling. We have several contacts in each unit of the College who work diligently to give us news items, but these people cannot know everything. Give us the news and we will use it. This is especially important for visitors coming to campus so that those interested can meet them.

The International Agriculture Newsletter is primarily an internal document for Agriculture and Veterinary Medicine. Of the 2,200 copies printed, about 200 are distributed outside the Colleges. Printing and distribution cost per copy is 17 cents.

Other media plans. Just as the International Agriculture Newsletter serves an internal purpose, there also is a need for a newsletter for collaborators in the U.S. and abroad, including funding agencies and USAID offices overseas. Beginning in early 1986, we will be publishing a quarterly newsletter for external distribution.

We are also preparing two brochures: one to recruit students with international interests to the College and the other to describe the College's international activities.

How do I get involved? In response to the large number of you who asked this question, a symposium to discuss ways of becoming involved internationally will be held on Friday, September 13, 1985, from 8:30 a.m. to 12:00 noon in room 426 Mumford Hall. Everyone is encouraged to attend.

A list of UIUC courses with international perspectives is available from the Office of Resident Instruction, 104 Mumford Hall. The list was prepared by Steven M. Banks, a graduate student in Agricultural Economics. Steve also prepared a list of more than 200 companies with international employment opportunities. Available in early autumn from the Office of Resident Instruction, the list should be especially useful to graduating students.

Staff developments. TIPAN long-term team members and their families are assembling in Pakistan. Errol D. Rodda, team leader and institution development specialist, arrived in June; Raymond G. Cragle, research program specialist, and R. William Seiders, outreach specialist, arrived in July. Martin Waananen, teaching program specialist, will arrive in August. We wish them all the best.

We are pleased to announce that on September 1, John A. Becker, USAID Agriculture Development Officer in Burkina Faso, will join us for a year as Illinois' first Reverse Joint Career Corps participant. John will work through the Department of Agricultural Economics.

Research developments. Theodore Hymowitz, Agronomy, and Richard L. Bernard, Agronomy/USDA, recently announced the development of three soybean lines which are free of the Kunitz trypsin inhibitor. Trypsin is an important digestive enzyme produced in the pancreas. Soybean cultivars currently available cannot be fed raw to poultry and swine because they produce substances that inhibit trypsin.

The new lines may eliminate an expensive part of the processing of soybeans for animal feed. This could save U.S. soybean producers between \$100 million and \$500 million annually, according to Bill Tiberend, Executive Secretary of the Land of Lincoln Soybean Association.

The soybean used to develop the new lines was collected in Korea and maintained in the U.S.D.A. soybean germplasm collection. This development would not have been possible without the exchange of germplasm afforded by our international involvement nor without state support supplied by funding from the Illinois Soybean Program Operating Board.

The lines are being released to public and private soybean breeders for the development of new soybean cultivars adapted to regions in the U.S. Seed is available for research purposes from R. L. Bernard, Department of Agronomy.

International exchange. Other agricultural improvements will be possible due to the new agreements with the Chinese for exchange of soybean, maize, and swine germplasm obtained by Dean John R. Campbell and Governor James Thompson during their visit to China in March 1985.

John J. Nicholaides

INTERNATIONAL ACTIVITIES

Safi S. Korban, Horticulture, spent May 12 to 21 in Egypt visiting scientists and facilities at Cairo University, Menoufia University, and Tanta University as the U.S. counterpart in a USAID project on production of fruit tree nurseries in Egypt. Clemson University is the lead institution on this project.

The International Agricultural Centre, Agricultural University of the Netherlands, Wageningen, awarded **Rabel L. Burdge**, Agricultural Economics and Institute for Environmental Studies, a fellowship for study at the Institute from June 20 to July 4. While in the Netherlands Dr. Burdge presented a paper entitled "The Usefulness of Social Impact Assessment in Planning for Economic Growth in Developing Countries" at the meeting of the International Association for Impact Assessment, Utrecht, June 26 to 29. Transportation to Europe was provided by UIUC's Scholars Travel Fund.

James F. Evans, Agricultural Communications, returned July 3 from a three-week study trip to England, Ireland, and Scotland. Dr. Evans and Delmar Hatesohl, University of Missouri, visited agricultural organizations and media centers to assess the feasibility of a field study tour for agricultural communications students.

Robert A. Easter, Animal Science, was a consultant for the American Soybean Association in Costa Rica, Guatemala, Honduras, and Mexico, July 9 to 27, where he presented seminars in Spanish on the use of soybean products in swine diets.

Congratulations to **James E. Harper** and **Edward W. Stoller**, Agronomy/USDA, for winning the 1985 Soybean Researchers' Recognition Award. They will join eight other U.S. soybean researchers on a ten-day tour of soybean research facilities in the United States and England, July 21 to 30, sponsored by the American Soybean Association and ICI Americas, Inc. The group will visit UIUC on July 23 for a program prepared by Gary E. Pepper, Agronomy.

An **INTERPAKS** team leaves on August 11 for Malawi to begin the first case study for the project on Technology Development and Transfer Systems in Agriculture. Team members are: John

B. Claar and Kathleen Cloud, INTERPAKS, Burton E. Swanson, Agricultural Education and INTERPAKS, Andrew J. Sofranko, Agricultural Economics, C. James Kaiser, Dixon Spring Agricultural Center, and Earl D. Kellogg, International Agriculture.

Johannes M. J. de Wet, Agronomy, will discuss cooperative research on a sorghum breeding project and review the cereal breeding programs at ICRISAT (International Crops Research Institute for the Semi-Arid Tropics), Patancheru, India, in mid-August. On this same trip, Dr. de Wet will also discuss a cooperative project on genetic engineering in maize with researchers at the University of Cologne, Germany.

In August, **James E. Hixon**, Veterinary Biosciences, will begin a nine-month sabbatical leave at the Agricultural and Food Research Council, Institute of Animal Physiology, Babraham, England. Dr. Hixon will work on factors associated with the maintenance of early pregnancy in cattle and sheep.

Donald R. Smucker, Piatt County Extension Adviser in Agriculture, returns to UIUC in August after spending two years in Belize with MUCIA's Caribbean Agricultural Extension Project. William L. Flinn, executive director of MUCIA (Midwest Universities Consortium for International Activities) wrote to William Oschwald, Director of Cooperative Extension at UIUC, that "Don . . . has provided outstanding leadership, excellent extension skills, and has developed interpersonal relationships with all his counterparts. The project, largely through his efforts, has been highly successful. He will leave behind a legacy of trained professionals and a more efficient extension system. . . . He represents the type of individual who has contributed to MUCIA's success and the good international reputation of Illinois."

INTERNATIONAL INVOLVEMENT

On September 13, 1985, in room 426 Mumford Hall, 8:30 a.m. to 12:00 noon, the Office of International Agriculture is sponsoring a symposium to present ways for faculty and staff in the Colleges of Agriculture and Veterinary Medicine to become involved in international programs. Everyone is invited to attend.

INTERNATIONAL CONFERENCES

Loren E. Bode, Agricultural Engineering, presented a paper entitled "Use of a Laser Imaging System for Agricultural Spray Analysis" at the International Conference on Liquid Atomization and Spray Systems, London, England, July 8 to 11.

Michael F. Hutjens, Animal Sciences, participated in the First International Conference on Milk Production sponsored by the Mexican Holstein Friesian Association, July 4 and 5, Mexico City, Mexico. He presented a paper on feeding the high producing cow.

Speakers at the International Symposium on Potassium in Agriculture, July 7 to 10, Atlanta, Georgia, included **Evelyn J. Weber**, Agronomy/USDA, and **L. Frederick Welch**, Agronomy. **Donald A. Holt**, Illinois Agricultural Experiment Station, is on the editorial committee of the symposium.

Sally Gordon, Human Development and Family Ecology, presented a paper entitled "Sex Role Variation in Household Economic Strategies Over the Adult Life Span" at the Annual Meeting of the Association of Caribbean Studies, Trinidad, July 28 to 30.

Henryk Jedlinski, Plant Pathology/USDA, and **Charles M. Brown**, Agronomy, participated in the Second International Oat Conference, University College of Wales, Aberystwyth, July 14 to 18. Dr. Brown chaired a session, and Dr. Jedlinski presented a paper.

Animal Sciences was well represented at the Eighteenth Annual Meeting of the Society for the Study of Reproduction, McGill University, Montreal, Canada, July 22 to 25. Presenting papers were **Janice M. Bahr**, "Steroidogenesis by the Theca Layer in the Domestic Hen," **Romana A. Nowak**, "Secretion of a Gonadotropin Releasing Hormone (GnRH)-like Factor by the Rabbit Fetal Placenta and Changes in Placental Concentration Throughout Pregnancy," and **Larry K. Ritzhaupt**, "FSH Receptors in Chicken Granulosa Cells at Various Times Before Ovulation." Attending were **Philip J. Dziuk**, who is President-elect of the society, **Jennifer L. Hesson**, **Patricia Johnson**, **Suzanne Moenter**, and **Stephen S. Palmer**.

Larry L. Berger, **Robert A. Easter**, and **Donald**

W. Geisting, Animal Sciences, will participate in the Thirteenth International Congress on Nutrition, Brighton, England, August 18 to 23. Dr. Berger will present an invited paper entitled "Animal Response to Various Ionophores" and Mr. Geisting will present a paper co-authored with Dr. Easter entitled "Evaluation of Fumaric Acid with Different Diet Types for Weanling Pigs."

Kenneth R. Olson, Agronomy, will present a paper entitled "Pore Distribution in Fine-Textured Soils" at the Romanian National Society of Soil Science, University of Timisoara, Romania, August 26 to 31.

Representing UIUC at the International Association of Agricultural Economics, August 26 to September 4, Malaga, Spain, are **Chester B. Baker**, **Harold D. Guither**, **Lowell D. Hill**, **Susan E. Offutt**, **Franklin J. Reiss**, **Steven T. Sonka**, and **Earl R. Swanson**, Agricultural Economics. Dr. Sonka will present an invited paper entitled "Computer-Aided Farm Management Systems: Will the Promise be Fulfilled?," Dr. Baker will chair a session on interdependence between agencies implementing rural development, Dr. Swanson will lead two sessions, and Dr. Hill will participate in a poster session with a presentation co-authored by **Wojciech Florkowski**, Agricultural Economics graduate student.

VISITING RESEARCHERS

Ira Bhattacharya, India, began a postdoctoral research project in Food Science in April. She is working with John A. Milner on the influence of selenium on carcinogen metabolism and activation through December 1985.

Run Zian-Zhang, director of the Shihezi Veterinary Medicine Station, China, is visiting Veterinary Medicine until October 1985. His wife, **Liu Feng-Jie**, is a visiting scholar with Kenneth S. Todd, Veterinary Pathobiology.

As part of the TIPAN (Transformation and Integration of the Provincial Agricultural Network) project in Pakistan, **Abdul Rauf Khattak**, **Jehangir Khan Khattak**, and **Habibur Rehman** arrived at UIUC in late June for three months of nondegree, post-masters training.

A. R. Khattak, Director of the Sugar Crops Research Institute, Mardan, will study sugar crop production at universities and research sites in California, Louisiana, Florida, and Hawaii. His first and last weeks will be spent at UIUC with Agronomy and TIPAN administrative staff.

J. K. Khattak, professor and chair of the Department of Soil Science, Northwest Frontier Province (NWFP) Agricultural University, Peshawar, will study soil chemistry and computer applications to soil science research at UIUC, Auburn University, Stanford University, University of Arizona, Eastern New Mexico State University, and Colorado State University.

H. Rehman, NWFP Department of Agriculture, Research Division, participated in an eight-week course sponsored by Auburn University and USDA on soil testing and fertilizer management. He will also visit UIUC, University of California-Riverside, University of California-Davis, South Dakota State University, and Montana State University for work on saline/alkaline soils.

Sponsored by USAID through Purdue University, **Jorge Colaco**, **Aura Antunes Colaco**, and **Fernando Macedo**, all from Villa Real, Portugal, will be visiting scholars in Animal Sciences for twelve to sixteen months. **Dr. Jorge Colaco** will work with Daniel Gianola on genetic evaluation of cows; **Dr. Macedo** will work with Daniel Gianola on statistical methodology; and **Dr. Aura Colaco** will work with Keith W. Kelley on immunophysiology. They will arrive on campus on August 21.

VISITORS RECENTLY ON CAMPUS

Recent visitors to the Department of Forestry to discuss short-term rotation wood production for energy include **Peter Sandell**, Conservation Commission of the Northern Territory, Alice Springs, Australia, May 7 to 10; and **S. D. Khanduja**, Botanical Research Institute, Lucknow, India, June 4 to 12.

A private soy food producer, **Charles Chiu**, Caranavi Ltd., La Paz, Bolivia, discussed INTSOY's utilization work with Harold E. Kauffman, INTSOY, and Alvin I. Nelson and Sing-wood Yeh, Food Science, on June 21.

Pierre Mormede, INRA, Bordeaux, France, and currently on sabbatical leave at the Salk Institute, San Diego, California, visited the laboratory

of Keith W. Kelley, Animal Science, and presented a seminar on mechanisms of action of a fibroblast growth factor, June 22 to 25.

Jean Peret, Research Director, Centre de Recherches sur la Nutrition, Meudon, France, met with scientists in Food Science and Animal Sciences, June 25 to 27. He presented a seminar entitled "Regulation of Gluconeogenesis: Comparison Between Starvation and Consumption of a High Protein Diet."

Recent visitors to Food Science include **Jose Miguel Aguilera R.**, Department of Chemical Engineering, Pontificia Universidad Catolica de Chile, Santiago, July 1, to discuss the effect of processing on food microstructure; and **Professor Nojima**, Tokyo University and Teikyo University, Japan, who discussed the chemistry of phospholipids with Toshiro Nishida, on July 8. Both visitors presented seminars.

A group of **twenty-two international scientists** visited UIUC on July 5 as part of a tour of North American agriculture organized in conjunction with the International Symposium on Potassium in Agriculture (July 7 to 10, Atlanta, Georgia) and the Fiftieth Anniversary Celebration of the Potash & Phosphate Institute (PPI). While in Illinois, the group toured university farms, private farms, and agricultural businesses. The Illinois tour was arranged by Harold F. Reetz, Southcentral Director for PPI and collaborator in Agronomy. L. Frederick Welch, Agronomy, coordinated the visit at UIUC.

Arnold Tschanz, Plant Pathologist at AVRDC (Asian Vegetable Research and Development Center), Taiwan, met with James B. Sinclair, Plant Pathology, Theodore Hymowitz, Agronomy, and Harold E. Kauffman, INTSOY, during his visit on campus July 9 and 10.

A round table discussion entitled "Agricultural Strategies to Help Illinois Farmers Weather the Next Economic Storm" was arranged by the Office of International Agriculture on July 12 for **Hugh Martin**, President, and **William Ramsey** of The Chicago Farmers. Participating from the College of Agriculture were: Chester B. Baker, David L. Chicoine, John B. Claar, Thomas L. Frey, Donald A. Holt, Sam H. Johnson, Earl D. Kellogg, David A. Lins, John J. Nicholaides, Susan E. Offutt, John T. Scott, Wesley D. Seitz, and Jack M. Widholm.

Keith W. Steele, Leader, Microbiology and Nutrient Cycling, Ruakura Soil and Plant Research Station, Hamilton, New Zealand, visited corn and soybean farms on July 18 in a program arranged by Kenin L. Smith, Platt County Agricultural Advisor. On July 19, Mr. Steele discussed nitrogen cycling with Bruce L. Vasilas, L. Frederick Welch, Richard M. Vanden Heuvel, Frank J. Stevenson, Richard L. Mulvaney, and L. Touby Kurtz, Agronomy and James E. Harper, Agronomy/USDA.

Peter Gregory, Department of Soil Science, University of Reading, England, met with Doyle B. Peters, Kabal S. Gill, and M. B. Russell, Agronomy, and presented a seminar on root growth and water use by crops in arid environments, July 19.

Twenty-eight international participants in the **Mississippi State/USDA Seed Improvement Course** visited UIUC, agribusinesses, private farms, and the Illinois Department of Agriculture from July 22 to 26 during a program organized by A. W. Burger, Agronomy.

Hortense Ratsimandresy, Director of Madagascar's Soybean Milk Factory Project and Deputy Director of Madagascar's National Investment Fund, discussed soybean utilization activities in Madagascar with Alvin I. Nelson and Lun-Shin Wei, Food Science, Joseph A. Jackobs, Agronomy, and Harold E. Kauffman, INTSOY, on July 25 and 26.

SCIENTIFIC AND TECHNICAL EXCHANGE PROGRAM/USDA

The Scientific and Technical Exchange Program of USDA's Office of International Cooperation and Development (OICD) promotes international cooperation through short-term (one to six weeks) activities in foreign countries. OICD shares travel, per diem, and some miscellaneous costs with a participant's sponsoring institution and provides administrative support. This is a grant program and does not pay overhead costs, salary reimbursement, costs of sabbaticals, or attendance at international meetings. For more information call or write Richard F. Rortvedt, U.S. Department of Agriculture, OICD/STE Room 3132 Auditors Building, Washington, D.C. 20250, telephone (202) 382-8006 or (202) 475-4185.

PUBLICATION OF NOTE

1985 Association of Women in Development Conference Proceedings are available from AWID, c/o SECID, 1612 K Street, Suite 704, Washington, D.C. 20006, for \$20.00 plus \$2.50 for postage and handling.

INTERNATIONAL TRAVEL FUNDS

October 1, 1985, is the next deadline for international travel funds available to University of Illinois faculty and staff through MUCIA (Midwest Universities Consortium for International Activities) and the Office of the Vice President for Academic Affairs. Grants of up to \$1,000 are available to support international travel which will result in the development or enhancement of international programs at the University of Illinois. Matching funds must be secured from institutional sources. Deadlines for 1986 are February 1 and October 1. Guidelines and request forms are available from T. John Kim, MUCIA Liaison Officer, 311 Coble Hall, 801 South Wright Street, Champaign, IL 61820, telephone (217) 333-1993.

BOOKS FOR ASIA

The Asia Foundation, P.O. Box 3223, San Francisco, California, 94119, will arrange to send educational material to Asia. Anyone wishing to contribute material should contact the Foundation. The donor is asked to pay mailing costs to California.

INTERNATIONAL WATER RESOURCES ASSOCIATION

The International Water Resources Association was formed in 1972 to confront the challenges of managing water resources systems around the world and to promote communications, collaboration, and support of international water resources programs. IWRA invites professionals of all disciplines to participate in the advancement of water resources management and technology on an international level. For more information about IWRA write to Glenn E. Stout, Executive Director, International Water Resources Association, 208 North Romine, Urbana, IL 61801, USA.

SPEED-UP URGED FOR AFRICAN AID

In June 1985, FAO Director-General Edouard Saouma called for a speed-up in the delivery of food aid pledged to African countries. Aggregate food aid requirements of the twenty-one nations still affected by the drought are now estimated at 7 million tons, of which 6.3 million tons has been pledged. However, only 2.7 million tons had been delivered by early May. Mr. Saouma noted logistical bottlenecks affecting food deliveries in some countries but said more could be done by both donors and recipients through better planning.

The most recent FAO Food Outlook reports that immediate aid deliveries are vital for af-

ected countries in southern Africa in the current "lean season" before the main harvest. For the Sahel countries and Sudan, deliveries are important in the next weeks before seasonal rains make remote settlements inaccessible by road. Overall, FAO reports the food situation continues to be most critical in Chad, Mali, and Niger in the Sahel, and Ethiopia and Sudan in East Africa.

Mr. Saouma also warned that the World Food Programme's cash resources were depleted to the point of eroding the flexibility of its operational capability and that the level of commitments to development projects this year could be one-quarter lower than in 1984. (From *FAO at Work*, May/June 1985)

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. Contact the Office of International Agriculture to receive your own copy of this Newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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INTERNATIONAL AGRICULTURE NEWSLETTER

College of Agriculture and College of Veterinary Medicine, University of Illinois at Urbana-Champaign
113 Mumford Hall, 1301 W. Gregory Drive, Urbana, IL 61801, USA. Telephone (217) 333-6420; Telex 206957

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

September 1985, No. 88

INTERNATIONAL TRAINING

The presence of students from other countries is a well-established tradition on our campus. The first graduating class of the University of Illinois included an agriculture student from Japan. A survey taken of departments in the College of Agriculture revealed that twenty-five percent of the graduate students were from foreign countries and that nine out of ten foreign students were from developing countries. Furthermore, nearly one-third of the graduate degrees granted by U.S. land grant colleges of agriculture are awarded to foreign students.

Looking ahead, it appears that U.S. universities will educate continually increasing numbers of students from developing countries. There is a tremendous need for training and U.S. universities will play a vital role for many years. In addition, most development assistance agencies and donor organizations recognize that third world countries lack trained people and effective agricultural institutions. The response, particularly from the U.S. Agency for International Development (USAID), has been to emphasize "institution building" projects. Human resource development and personnel training to staff the institutions being created or upgraded are integral parts of institution building. It is, after all, people who shape the institutions and subsequently energize their nation's future.

Donor and development assistance organizations depend heavily on their relationships with universities to implement institution building projects. Universities are particularly effective in institution building projects because large numbers of people usually must be trained as part of the personnel-upgrading plan. We can produce the scientists and administrators who will establish and operate the new institutions. Educating people is a primary function of universities. The objective is to establish the enthusiastic, committed, and well-trained staff that any emerging institution must have.

Project orientation. The Office of International Agriculture (OIA) assists with the education and training of foreign students in support of our on-going agricultural development projects, programs, and contractual commitments. We often call it "participant training" because these students are or will be actively participat-

ing in an institution building project. The project supports their training and it is the goals of the project that are considered when participants are chosen and training programs are designed.

Institution building and work with international students is not new to UIUC faculty. The College of Agriculture has been involved in major institution building projects in India, Jordan, Peru, Sierra Leone, and Sri Lanka. Our current projects are located in Zambia and Pakistan (see map).

In support of the Zambia Agricultural Research and Extension (ZAMARE) project, for example, more than one hundred people have received training. Degree-training was arranged for thirty-eight people and the balance have attended specialized technical short courses. Upon returning to Zambia, they will more effectively carry out their responsibilities as part of Zambia's agricultural research and extension system.

Our project in Pakistan, Transformation and Integration of the Provincial Agricultural Network (TIPAN), will develop an agricultural university that can serve farmers and all sectors of agriculture throughout the Northwest Frontier Province. Nearly one hundred people will be brought out for training during the first five years. To date, fourteen professors and research scientists have come to the U.S. for post-masters or post-doctoral training programs. Another sixteen Pakistanis are placed in advanced degree programs at UIUC and other U.S. universities.

Short courses. Consistent with this institution building focus, programs such as the International Soybean Program (INTSOY) and the International Program for Agricultural Knowledge Systems (INTERPAKS) were established at UIUC to serve a specific international clientele. As part of INTSOY's effort to establish and expand soybean industries in the developing world, 203 scientists from more than sixty countries have been trained through soybean processing and production short courses held at UIUC. More than 200 others have attended region-specific and country-specific workshops and training sessions held in Colombia, Ecuador, India, Nigeria, Pakistan, Peru, Sri Lanka, and Turkey.

INTERPAKS' mission is to upgrade institutions involved in the development, transfer, and utilization of agricultural technology and to improve the ties among

these institutions. The training focus of INTERPAKS concentrates on the in-service educational needs of high-level administrators, particularly those responsible for extension services. A five-week course, taught at UIUC, was initiated in 1984 for administrators. Entitled "Organization and Operation of Agricultural Extension Services in the International Setting," it is offered annually.

Degree programs. Another example of OIA training activity is the administration of graduate degree programs for ministries of agriculture or other sponsoring organizations. A training project with the Ivory Coast Ministry of Agriculture, in operation from 1975 to 1985, resulted in sixty Ivorians trained to the masters-degree level in agriculture at more than twenty U.S. universities. A smaller project used OIA's management services to train scientists from Zaire to the masters-degree level.

Training outside the U.S. We also give seminars, conferences, short courses, and workshops, lasting from one to four weeks, abroad. Topics are selected on the basis of local or regional needs. INTSOY, INTERPAKS, and ZAMARE have sponsored programs in a score of countries and several languages.

Training is an investment. In spite of the compelling rationale that can be built for training, some donor agencies have refrained from making heavy investments in human resource development. The management of training programs is complex and labor intensive, and sometimes many years pass before measurable results are seen. The use of development resources for train-

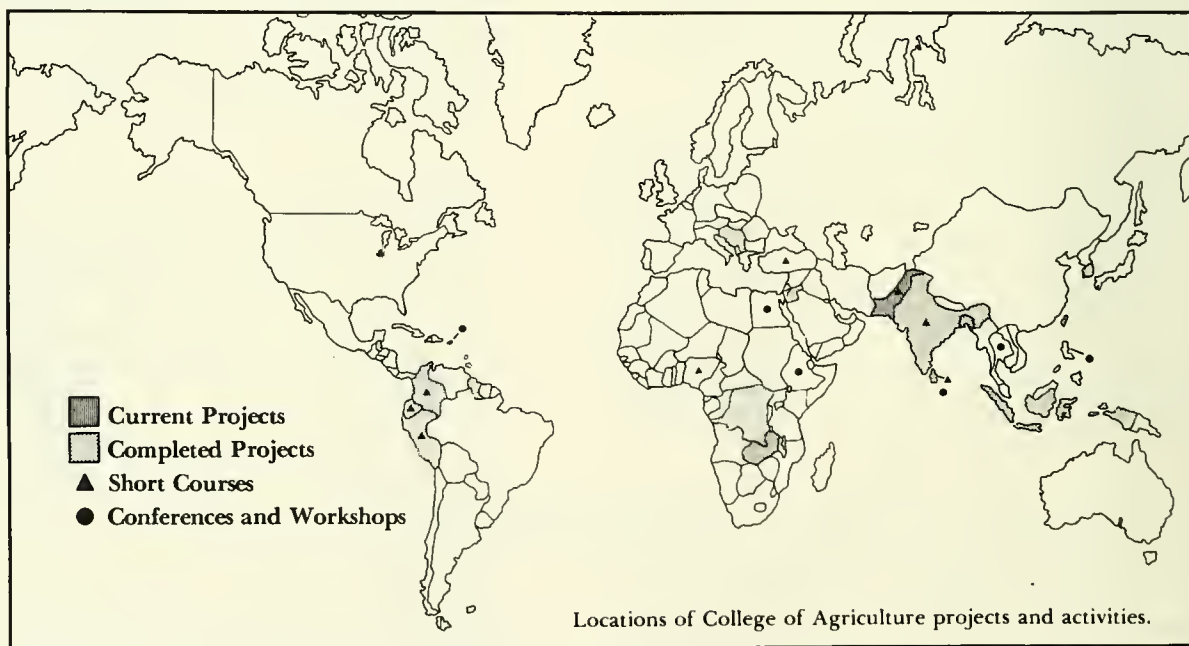
ing is more difficult and demanding than shipping in tons of fertilizer. Similarly, some recipient countries would prefer to use the funds for showcase projects such as dams, factories, airports, hotels, super highways, and machinery.

India is a country that invested heavily in training people and building institutions for agricultural education and research. There were deliberate government policies to get people overseas for training and to develop universities and research stations. In the 1950's and 1960's the University of Illinois and other U.S. universities were deeply involved in India's agricultural university development and education programs. India's investment in education and training is paying dividends.

In some developing countries the shortage of trained personnel is so severe that people sent for training often end up as administrators, not scientists or professors. These countries are not yet at the stage where they can reproduce their agricultural leadership.

UIUC'S role. The Office of International Agriculture at UIUC is able to draw upon a wide range of educational resources to design training programs which capitalize on our experience and meet unique needs of scientists, administrators, educators, and policy-makers from countries in various stages of development. We have a successful record in human resource development and continuing education in agriculture.

For more information about our training activities call or write John W. Santas, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, IL 61801, telephone (217) 333-3638.



NICHOLAIDES' NOTES

We are excited about our September 13 special symposium entitled "How Do I Get Involved in International Agriculture?," the details of which are provided on the back page of the newsletter. We look forward to seeing all interested faculty, staff, and students there. Extension personnel are especially encouraged to attend.

Also, we are enthusiastic about the fall presentations in our International Agriculture Seminar Series, to be held every Wednesday beginning on September 11 at 4:00 p.m. in room 426 Mumford Hall. See the seminar list on page 7 for titles.

Thanks are in order to the committees who organized the special symposium and the seminar series, both chaired by John W. Santas, Assistant Director of the Office of International Agriculture.

We would like more students to receive the International Agriculture Newsletter and encourage departments to send appropriate names and addresses to Bonnie J. Irwin, editor, 113 Mumford Hall.

Your interest in our activities is appreciated and comments and suggestions are welcome at any time.

J. J. Nicholaides III

INTERNATIONAL ACTIVITIES

Welcome to **Laurian J. Unnevehr**, Assistant Professor of Prices and Outlooks, Agricultural Economics, and **Gerald C. Nelson**, Visiting Assistant Professor, Agricultural Economics, who arrived at UIUC in August from the International Rice Research Institute (IRRI), Philippines.

Mark J. Wetzel, Faunistic Surveys and Insect Identification Section of the Illinois Natural History Survey, was part of a six-person team in Peru collecting aquatic Oligochaeta from various habitats, May 28 to June 18. The expedition was sponsored by the Institute of Ocean Sciences, Sidney, British Columbia, Canada.

Luis R. Zavaleta, Agricultural Entomology/Economic Entomology, Illinois Natural History Survey, and Agricultural Economics, returned to campus in August after serving for nineteen months as the agricultural economist on a North Carolina State University project in Peru.

At the request of Purdue University and USAID, **Daniel Gianola**, Animal Sciences, served as an adviser

in quantitative genetics and statistics at the University Institute of Vila Real, Portugal, June 24 to July 17. While in Portugal Dr. Gianola presented a seminar at the Escola Superior de Medicina Veterinaria, Lisbon, on sire evaluation and its feasibility in Portugal.

Charles N. Graves, Animal Sciences, presented two invited papers and participated in a round table discussion at the Ninth Annual Conference on Animal Reproduction held at Venado Tuerto, Argentina, from June 26 to 30. The papers were entitled "Factors Influencing Reproductive Efficiency in the Female" and "Factors Influencing Reproductive Efficiency in the Male."

In July, **John C. Thurmon**, Veterinary Clinical Medicine, spoke on "Teaching, Service, and Research: The Clinician's Juggling Act" at the annual meeting of the Canadian Veterinary Medical Association, Penticton, British Columbia.

Food Science faculty and graduate students attending the Fourth International Congress on Engineering and Food in Edmonton, Alberta, Canada, July 7 to 10, include **Munir Cheryan**, **Robert Hagan**, **James Hawkes**, and **Ricardo Villota**. Dr. Cheryan presented a paper and chaired a round table discussion on the problems of technology exchange between developed and developing countries. Dr. Villota presented four papers dealing with basic research on heat and mass transfer as applied to food processing.

David B. Dickinson, Horticulture, presented a paper at the International Pollen Symposium, University of Massachusetts, Amherst, July 10 to 12.

Jeffrey O. Dawson, Forestry, will spend August through April in the Forestry Department, Australian National University (ANU), Canberra, as part of his sabbatical leave. Dr. Dawson received a visiting fellowship from ANU to conduct research on symbiotic nitrogen fixation by *Casuarina* tree species.

Dennis Lawn, graduate student in Plant Pathology, will spend the next twelve months in Zambia conducting research on soybean nematodes for his Ph.D. thesis. This research is supported by the special studies program of the Zambia Agricultural Research and Extension (ZAMARE) project. **Glen L. Hartman**, graduate student in Plant Pathology, recently returned from Zambia to UIUC to continue his studies for a Ph.D. degree. Mr. Hartman was in Zambia for eight months gathering data on pyrenochaeta leaf blotch of soybeans. He also was sponsored by the special studies program of the ZAMARE project.

Marvin P. Steinberg, Food Science, and **Donald L. Day**, Agricultural Engineering, will present a paper entitled "Biogas from Biomass in Developing Countries" at the International Symposium on Sustainable Development of Natural Resources in the Third World, September 3 to 6, at Ohio State University. The paper is co-authored by Clifford B. Fedler and Randall A. Hartwig, Agricultural Engineering.

Mark A. James and **Sonia Montenegro-James**, Veterinary Pathobiology, participated in the Eleventh Conference of the World Association for the Advancement of Veterinary Parasitology, Rio de Janeiro, Brazil, August 5 to 9. Dr. James chaired a plenary session on pathogenesis of animal parasitism and Dr. Montenegro-James presented a paper entitled "Bovine Babesiosis: Vaccination with Culture-derived Exoantigens."

From September 24 to 28, **Arthur J. Muehling**, Agricultural Engineering, will participate in the International Society of Agricultural Engineering Section II meeting on "Agricultural Buildings in Hot Climates" in Catania, Italy. Dr. Muehling is starting his second five-year term on the Board of Section II.

D. Homer Buck, Aquatic Biology Section of the Illinois Natural History Survey and Animal Sciences, is an invited participant in the Aquaculture of Carp and Related Species Symposium, Paris, France, September 2 to 5. Dr. Buck will co-chair a session on aquaculture, moderate a round table discussion, and prepare a summary of the discussions and poster sessions for the proceedings.

Through an agreement between the International Executive Service Corps (IESC) and the Asociación de Ganaderos del Litoral (a coastal livestock association), Guayaquil, Ecuador, **W. Michael Sager**, Woodford County Extension Adviser in Agriculture, will spend the month of October in Ecuador. Mr. Sager will, in Spanish, conduct seminars and give advice on the administration of beef and dairy cattle herds and general livestock farm operations.

INTSOY Activities

From September 1 to 15, **Joseph A. Jackobs**, Agronomy, will visit soybean cultivar trials and discuss germplasm exchange programs at six locations in China. His internal travel expenses in China are funded through a MUCIA (Midwest Universities Consortium for International Activities) grant. Dr. Jackobs will then travel to Pakistan and Turkey to discuss cooperative soybean research activities and plans for a regional soybean conference to be held in Turkey in September 1986.

James B. Sinclair, Plant Pathology, will visit Zambia and Zimbabwe from September 15 to 27 to discuss collaborative research on pyrenochaeta leaf blotch and to plan a soybean technology training course for southern Africa, which will be held in Harare, Zimbabwe, in February 1986.

Alvin I. Nelson, Food Science and leader of the INT-SOY utilization program, will visit Zambia from September 17 to 22 and Zimbabwe from September 22 to 27 to discuss cooperative work on expanding the use of soybeans to meet nutritional needs of people in these countries.

Harold E. Kauffman, INTSOY Director, will be in Madagascar from September 17 to 24 to discuss cooperative soybean research activities with USAID and Madagascar government officials. He will spend September 25 to 27 in Nairobi, Kenya, discussing soybean research activities in East Africa.

Luis H. Camacho, INTSOY Agronomy stationed in Colombia, **Michael E. Irwin**, Agricultural Entomology and Economic Entomology, Illinois Natural History Survey, **Joseph A. Jackobs**, Agronomy, **Harold E. Kauffman**, INTSOY, **Alvin I. Nelson**, Food Science, and **James B. Sinclair**, Plant Pathology, will present papers and participate in the Tropical Soybean Workshop at the International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria, September 30 to October 4.

INTERNATIONAL PERSPECTIVE

International Nutrition (Foods and Nutrition 422) meets Tuesdays and Thursdays from 10:00 a.m. to 12 noon in room 372 Bevier Hall. Call the instructors for more information: Mary Frances Picciano (333-2289) or John S. Willis (333-0974).

Microcomputer Applications in LDC's (Agricultural Economics 491d) meets Tuesdays from 2:00 p.m. to 4:00 p.m. or Wednesday nights from 7:00 p.m. to 9:00 p.m. in room 199 Bevier Hall. Call the instructors for more information: Sam H. Johnson (333-5512) or Jane S. Johnson (333-5836).

SPANISH FOR AGRICULTURE

Elementary Spanish for Agriculture and Related Fields I (Spanish 141), will welcome visitors on September 24, 25, 26, and 30 when class work will feature "la economía agrícola de Colombia." Class is held in room G-30 of the Foreign Languages Building at 3:00 p.m. Visitors are encouraged to call Margo De Ley at 333-1977 beforehand. Visits at other times can also be arranged.

VISITING RESEARCHERS

Dharam Pal, National Dairy Research Institute, Karnal, Haryana, India, is studying membrane technology and milk processing with Munir Cheryan, Food Science, from August 15 to December 30. Dr. Pal is sponsored by FAO.

Kim Sung-Hoon, Sunjin Livestock and Meat Co., Ltd., Korea, will begin a six-week program in swine breeding and management in the Animal Sciences Department in early September. USDA's Office of International Cooperation and Development is sponsoring Mr. Kim.

Agricultural Entomology and Economic Entomology, Illinois Natural History Survey, are hosting two visiting researchers. **Hassam Oloumi-Sadeghi**, Associate Professor of Entomology, University of Tehran, Iran, will work on field crop pest management from August 1985 to August 1986. **Katsumi Togashi**, Ishikawa Forest Experiment Station, Tsurugi, Japan, will arrive in early October to spend twelve months working with James E. Appleby on insect vectors of pine wilt disease.

New visiting researchers in Agronomy include **J. N. Sfakianakis**, Cereal Institute, Thessaloniki, Greece, who is working with D. E. Alexander; and **Samuel Moreshet**, Volcani Institute, Rehovot, Israel, for one year to work with John D. Hesketh on water stress and leaf physiology.

VISITORS COMING TO CAMPUS

H. Schön, head of the Agricultural Institute at Braunschweig-Volkenrode, Germany, will discuss UIUC's dairy automation research with Arthur J. Muehling and Hoyle B. Puckett, Agricultural Engineering, and Sidney L. Spahr, Animal Sciences. Prof. Schön will present seminars on September 4 and 5 (see seminar listing for details).

Jun-ichi Okumura, Faculty of Agriculture, Nagoya University, Japan, will discuss protein and amino acid metabolism with David H. Baker, Animal Sciences, and John A. Milner, Food Science, on October 1 and 2. To meet with Mr. Okumura call Dr. Milner at 333-4177.

VISITORS RECENTLY ON CAMPUS

Recent visitors to the laboratory of Munir Cheryan, Food Science, include: **R. D. Verma** and **R. K. Kohli**, National Dairy Research Institute, Karnal, India, June

28 to 29, to discuss research in dairy technology; **Jan Nilsson** and **Einar Matthaison**, Department of Food Engineering, Lund University, Lund, Sweden, July 19, to review research in membrane technology; and **Pierre Aimar**, Université Paul Sabatier, Toulouse, France, July 18, to discuss bioprocess technology research.

Twenty participants in Purdue University's international integrated pest management short course viewed the resistance and virus-vector soybean research of Agricultural Entomology and Economic Entomology, Illinois Natural History Survey, on July 12. They also visited the two entomological data bases, Soybean Insect Research Information Center (SIRIC) and International Soybean Arthropod Collection (ISAC).

Mansura Begum and **Minhaj Ahmed**, National Agricultural Library and Documentation Centre, Bangladesh, visited the College of Agriculture Library from July 14 to 20. Carol Boast, Agriculture Librarian, arranged for them to visit libraries around the state. Sponsored by USAID, the librarians also visited the National Agricultural Library, Cornell University, and Kansas State University.

Under the direction of L. Frederick Welch, Agronomy, approximately forty-five **Canadian visitors** from Quebec toured the Agronomy-Plant Pathology South Farm on July 17. They discussed fertilizer, seed, and growth of crop plants.

Meir Broza, insect pathologist, University of Tel Aviv, Israel, met with Joseph V. Maddox and Marcos Kogan, Agricultural Entomology and Economic Entomology, Illinois Natural History Survey, on July 21 during a program arranged by Edward J. Armbrust.

Karl Weingartner, food utilization scientist for the soybean program at the International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria, reviewed village and home-level processing techniques for soybeans with INTSOY and Food Science staff, July 28 to August 9.

C. Sullay Kamara, Agronomy Department, Njala University College, Freetown, Sierra Leone, visited UIUC and the Agronomy Department during the month of July. Dr. Kamara was interested in soils research.

Fifty-two students from **Nihon University**, Japan, toured UIUC's Veterinary Medicine Teaching Hospital on August 2. Part of an international relations program to introduce students to U.S. culture, they spent four weeks at UIUC studying English before traveling throughout the U.S.

Escorted by Paul L. Raymer, Georgia Agricultural Experiment Station and UIUC graduate in Agronomy, **Halis Arioglu**, University of Cukurova, Adana, Turkey, visited UIUC on August 5 and 6. Mr. Arioglu discussed soybean production and protection with Harold E. Kauffman, INTSOY, Danny R. Erickson, Joseph A. Jackobs, Cecil D. Nickell, and Gary E. Pepper, Agronomy, James B. Sinclair, Plant Pathology, and Gail E. Kampmeier and Marcos Kogan, Agricultural Entomology and Economic Entomology, Illinois Natural History Survey.

On August 6, **Vernon R. Fowler**, Rowett Research Institute, Aberdeen, Scotland, presented a seminar for Animal Sciences entitled "ARC vs NRC: Why Nutrient Requirements of Pigs Differ."

Fernando Ajudarte Neto, Birigui, Brazil, **Rodolfo L. Rossi** and **Daniel Novoa**, Venado Tuerto, Argentina, and **W. J. Van Der Welt**, Silverton, South Africa, all corn breeders with Asgrow Seed Company, discussed diseases of corn and corn breeding with Donald G. White and James M. Perkins, Plant Pathology, and D. E. Alexander, Agronomy, on August 7. They were accompanied by Jerry Arnold, Asgrow Seed Company.

Safi S. Korban, Horticulture, recently arranged programs for two groups of Egyptian scientists who were visiting UIUC. On August 8, **M. Sadek El-Banasoury**, **Barakat Ahmed**, and **Kamal Abdel Rahman**, Menoufia University, **Saied Mahmoud**, Tanta University, and **A. Abdel Iatif Zaki** and **M. El-Ashry**, Ain Shams University, discussed animal nutrition with Larry L. Berger and Philip D. George, Animal Sciences, William C. Wagner, Veterinary Biosciences, and Borge K. Gustafsson, Veterinary Clinical Medicine. **M. Fouad**, Cairo University, **M. Sadek El-Banasoury**, Menoufia University, and **A. Bondoh**, Ain Shams University, all part of a USAID project on production of fruit tree nurseries, met with Dr. Korban and other faculty in Horticulture from August 6 to 9. Both groups also met with Earl D. Kellogg and John W. Santas, Office of International Agriculture.

Hidetaka Hakahara, manager of Oils and Fats, Foods Division, Mitsubishi Company, Japan, discussed research on breeding corn with a high oil content with D. E. Alexander, Agronomy, on August 8.

From August 15 to 18 **Sumikiro Korenaga**, Dean of the Faculty of Economics, Hokkaido University, discussed modern farming and marketing strategies with faculty in Agricultural Economics. Dr. Korenaga's programs was arranged by the International Programs and Studies Office.

WID SEMINAR SERIES

The Women in International Development seminar series this fall will feature the topic "Women in India," with presentations by UIUC WID scholars returning from India. The seminars will be held on the third Thursday of the month in the Friendship Lounge of the YMCA, 1001 South Wright Street, Champaign, at 12:00 noon.

INTERNATIONAL TRAVEL FUNDS: OCTOBER 1 DEADLINE

October 1, 1985, is the next deadline for international travel funds available to University of Illinois faculty and staff through MUCIA (Midwest Universities Consortium for International Activities) and the Office of the Vice President for Academic Affairs. Grants of up to \$1,000 are available to support international travel which will result in the development or enhancement of international programs at the University of Illinois. Matching funds must be secured from institutional sources. Deadlines for 1986 are February 1 and October 1. Guidelines and request forms are available from T. John Kim, MUCIA Liaison Officer, 311 Coble Hall, 801 South Wright Street, Champaign, IL 61820, telephone (217) 333-1993.

INTERNATIONAL VETERINARY CONFERENCE

More than 135 registrants from around the world attended the Conference on Infectious Rickettsial Blood Diseases of Man and Animals held at UIUC's College of Veterinary Medicine from July 14 to 16. The conference was sponsored by the U.S. Army Medical Research and Development Command, National Institutes of Health, and the College of Veterinary Medicine.

IPS OPEN HOUSE

The International Programs and Studies Office cordially invites you to attend the open house of their new facilities located on the

third floor of Coble Hall
801 South Wright Street, Champaign, IL 62820
Wednesday, September 11 through
Friday, September 13, 1985.

SEMINARS

September 4 Work Safety, Mechanization in Dairy Husbandry, Tractor Use, and Other Research at the Agricultural Institute at Braunschweig-Volkenrode, Germany — H. Schön, Head of the Agricultural Institute.

10:30 a.m., 204 Agricultural Engineering Sciences Bldg.

*Agricultural Engineering Seminar

September 5 Dairy Mechanization Research — H. Schön, Head of the Agricultural Institute at Braunschweig-Volkenrode, Germany.

12:00 noon, 426 Mumford Hall.

*Animal Sciences Seminar

September 11 In the Beginning . . . Early Agricultural Engineering in India — Ralph C. Hay, professor emeritus in Agricultural Engineering.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

September 13 How Do I Get Involved in International Agriculture? — College of Agriculture staff.

8:00 a.m. to 12:00 noon, 426 Mumford Hall.

*International Agriculture Seminar

September 18 Visions of the TIPAN (Transformation and Integration of the Provincial Agricultural Network) Project — S. Iqbal Shah, Abdul Rauf Khattak, and Jehangir Khan Khattak, TIPAN participants.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

September 20 Women in India — WID scholars.

12:00 noon, Friendship Lounge, YMCA, 1001 South Wright Street, Champaign.

*WID Seminar

September 25 Increasing Production Potential for Illinois Farms: The U.S.-China Swine Germplasm Exchange — John R. Campbell, Dean of the College of Agriculture, and John F. Rundquist, Montgomery County Swine Producer.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

October 2 Dateline Malawi: Report on the INTERPAKS (International Program for Agricultural Knowledge Systems) Case Study — Kathleen Cloud, INTERPAKS.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

October 9 On the International Front: Projects and Programs of the American Soybean Association — Kenneth Bader, Chief Executive Officer, ASA.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

October 16 World Food Day Program — check the October International Agriculture Newsletter for a complete listing of World Food Day activities.

October 17 Women in India series — WID scholars. 12:00 noon, Friendship Lounge, YMCA, 1001 South Wright Street, Champaign.

*WID Seminar

October 23 MUCIA (Midwest Universities Consortium for International Activities) Project at the Institute of Agricultural and Animal Sciences, Rampur, Nepal — Marlowe D. Thorne, professor emeritus, Agronomy.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

October 30 The Development of an Instructional Farm in North Yemen — Douglas B. Bauling, Illinois Agricultural Experiment Station.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

November 6 Lessons Learned: Developing Curriculum Materials for Women in International Development — panel discussion with participants of the 1985 WID team to India (tentative).

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

November 13 A Look at Belize: MUCIA'S Caribbean Agricultural Extension Project — Donald R. Smucker, Cooperative Extension Service.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

November 20 Beef and Dairy Production in Coastal Ecuador — W. Michael Sager, Woodford County Cooperative Extension Service.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

November 21 Women in India series — WID scholars. 12:00 noon, Friendship Lounge, YMCA, 1001 South Wright Street, Champaign.

*WID Seminar

How Do I Get Involved in International Agriculture?

A symposium open to all faculty, staff, and students

September 13, 1985

426 Mumford Hall

- | | |
|------------|--|
| 8:00 a.m. | Coffee and Registration |
| 8:15 a.m. | Symposium Format — John W. Santas, Chair |
| 8:25 a.m. | Programs, Projects, and Staff in International Agriculture — John J. Nicholaides, Director of International Agriculture |
| 8:45 a.m. | The Dean's Perspective — John R. Campbell, Dean of Agriculture |
| 9:05 a.m. | International Courses in Agriculture and Human Resources and Family Studies — Charles E. Olson, Resident Instruction |
| 9:15 a.m. | Involvement through Government Agencies, Private Organizations, and University Contracts — Earl D. Kellogg, Associate Director |
| 9:45 a.m. | Break |
| 10:00 a.m. | TIPAN, Transformation and Integration of a Provincial Agriculture Network, Pakistan — William N. Thompson, senior advisor |
| 10:15 a.m. | ZAMARE, Zambia Agricultural Research and Extension project — Earl D. Kellogg, campus coordinator |
| 10:30 a.m. | INTERPAKS, International Program in Agricultural Knowledge Systems — John L. Woods, director |
| 10:45 a.m. | INTSOY, International Soybean Program — Harold E. Kauffman, director |
| 11:00 a.m. | MUCIA, Midwest Universities Consortium for International Activities — T. John Kim, UIUC liaison |
| 11:15 a.m. | Publications — Bonnie J. Irwin, publications and information officer |
| 11:25 a.m. | Training — John W. Santas, training officer |
| 11:35 a.m. | Projects on the Horizon — John J. Nicholaides, Director of International Agriculture |
| 11:40 a.m. | Open Discussion |
| 12 noon | Adjourn |

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit Newsletter items. Contact the Office of International Agriculture to receive your own copy of this Newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

Office of International Agriculture
College of Agriculture
University of Illinois at Urbana-Champaign
113 Mumford Hall
1301 West Gregory Drive
Urbana, Illinois 61801, USA

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T E



AGRICULTURE NEWSLETTER

College of Agriculture and College of Veterinary Medicine,
113 Mumford Hall, 1301 W. Gregory Drive, Urbana, IL 61801, USA. Telephone (217) 333-6420; Telex 206957

University of Illinois at Urbana-Champaign

October 1985, No. 89

WORLD FOOD DAY

World Food Day is observed on October 16, the anniversary of the establishment of the Food and Agriculture Organization (FAO) of the United Nations. Its purpose is to increase public awareness of the world food situation and to develop national and international support for the struggle against poverty, hunger, and malnutrition.

World Food Day will be observed at UIUC through activities such as: participation in a national teleconference, seminars, displays, and food collection (see the activity list on page 6 for details).

Why should the U.S. be involved in world food problems?

The most obvious answer is humanitarian. Malnutrition and hunger create extreme hardships for millions of people. Estimates of the number of people affected by hunger range from one hundred million to one billion. FAO estimates that over five hundred million people suffer from severe malnutrition. More than seventy-five percent of the world's population live in the less developed countries where food problems are a major concern.

World food problems affect all of us. The world is becoming increasingly interdependent both politically and economically. North-South dialogues, food security conferences, and developing country debt summit conferences are important parts of the world political agenda. Hunger, malnutrition, poverty, and high food prices lead to political unrest and instability. As a world power, the U.S. cannot avoid dealing with these concerns.

A third reason is economic self interest. There can be no enduring economic prosperity in the U.S. without sustained economic growth in the Third World. The U.S. agricultural sector, heavily dependent on export sales, has a particularly important stake in the improvement of conditions in developing countries. These countries are a major market for exports and the most likely future growth markets. Forty percent of U.S. agricultural exports now go to developing countries. In addition, Americans consume over \$16 billion in agricultural imports each year, most of which come from developing countries.

What causes hunger? The primary cause of hunger is poverty. Poverty is an almost inevitable condition for the majority of people suffering the effects of natural disasters, general world recession that reduces a country's balance of payments and limits its ability to import food, political upheaval and war, lack of rural infrastructure for movement of food into the countryside, and national policies which fail to support agricultural production of domestic food crops. These problems are characteristic of developing countries.

Where do we find hunger? Hunger and malnutrition can be found in every country, including the United States and other highly developed nations. In terms of protein and caloric deprivation, the most severely affected areas of the world are Africa and south and east Asia. Latin American and the Caribbean also have hunger problems.

What is the difference between hunger and malnutrition?

Hunger occurs when there is a lack of food for a relatively short period of time. Malnutrition occurs when hunger is especially severe or when it becomes a chronic condition. Some evidence suggests that a single episode of hunger may not cause significant damage. Malnutrition, on the other hand, is a complex interaction between nutrient needs and health, and is highly detrimental to physical and mental well-being.

What are the effects of malnutrition? Malnutrition is harmful to both children and adults, although children under five years old are at special risk. Malnutrition is responsible for low birth rates, slower body growth, delayed maturation, shorter stature, and restricted physical activity. Mental retardation can occur if a child undergoes severe food deprivation during critical periods of development.

Serious, and sometimes fatal, diseases are caused by malnutrition. Kwashiorkor can occur in children between the ages of one and three. Abnormal skin and hair and a bloated stomach are characteristic symptoms. Marasmus, characterized by severe wasting, occurs when a child consumes insufficient calories. Other conditions resulting from malnutrition include anemia (lack of iron), blindness (lack of vitamin A), and goiter and cretinism (lack of iodine).

These conditions can be prevented or treated by supplying the nutrient or element lacking in the diet and by ensuring that the total caloric intake is sufficient for good health. Pure drinking water in adequate quantities and proper sanitation are also necessary to maintain and protect health.

Is there enough food to feed the world? If the world food supply is examined from the standpoint of available calories per person, with food distributed equally, there appears to be enough food for every individual. However, the unequal distribution of resources throughout the world makes it impossible for every individual to obtain enough food. Even though the possibility exists that enough food is available to feed the world, poor countries and poor families cannot compete for available food supplies.

What is the outlook for the future? Although there has been a steady increase in world food production over the past

twenty-five years, during the last ten years the rate of increase has slowed to 1.7 percent annually. An increased demand of about 3 to 4 percent yearly is anticipated in the future as population and per capita incomes increase in developing countries. Since the middle of the 1970's, developing countries have increased food production more rapidly than developed countries. Even so, population growth in developing countries has caused per capita food production to increase slowly or, in some cases, decline.

How serious is Africa's food deficit? African per capita food production has declined while the rest of the world's per capita food production has increased. At the same time, Africa's population growth rate is the highest in the world. It was 2.9 percent in 1984, compared to 1.7 percent for the world as a whole and 2.4 percent in Latin America, the next highest growth area. It is estimated that from sixteen to thirty percent of Africa's population has less than the critical minimal level of caloric intake for normal growth and development.

What can we do? Since World War II there have been determined efforts by the U.S., other nations, the UN, and many other national, regional, and international organizations to alleviate and solve the problems of hunger.

Within the UN, four organizations are concerned with food: Food and Agriculture Organization, World Food Program, International Fund for Agricultural Development, and World Food Council.

The World Bank, the Inter-American Development Bank, and other financial institutions provide loan capital for development projects.

Private and voluntary organizations, such as CARE and OXFAM, are actively working in developing countries. Their activities include operating food aid programs and carrying out development education activities.

Religious organizations are also deeply committed to aid programs. Activities range from missionaries supported by individual churches to large programs such as the Catholic Relief Services.

Every developed and many developing nations have government-supported aid agencies working to alleviate hunger. The U.S. Agency for International Development is the primary U.S. governmental agency dealing with world hunger problems.

Many U.S. universities have development programs in third world countries and almost every land-grant university has an office of international agriculture. At UIUC, the Director of the Office of International Agriculture is one of four associate deans in the College of Agriculture.

The ability of a nation to feed itself is critical to world peace, economic development, and sustained well-being. Hunger cannot be solved by charity, nor can it be eradicated by agricultural solutions alone. Ending world hunger ultimately pays dividends to people everywhere, including here at home.

For more information about World Food Day activities at UIUC call or write Leon A. Mayer, Agricultural Education, 338 Education Building, 1310 South Sixth Street, Champaign, IL 61820, telephone (217) 333-2775. Much of the material in this article was excerpted from the 1984 World Food Day Study Packet.



Canned goods will be collected on October 16 from 9:00 a.m. to 4:00 p.m. in the south foyer of the Illini Union.

NICHOLAIDES' NOTES

The symposium "How Do I Get Involved in International Agriculture" was attended by approximately sixty people and well received, judging from comments following the symposium. We were delighted that a visit to UIUC by Erven Long, Director of USAID's Office of Research and University Relations, allowed his participation in the symposium. His comments and those of our Dean, John R. Campbell, were especially pertinent and added substantially to the symposium. We will be contacting those of you who attended and filled in the registration form. People who were unable to attend but would like to have their name on file for future projects should call Pamela J. Woodard at (217) 333-5837.

We are pleased to announce that UIUC is one of three finalists in the Jamaica Agricultural Education Project. The proposal was prepared by faculty in the College of Education and the College of Agriculture, in cooperation with Purdue University and Florida A&M University. Because UIUC was listed as the lead institution in the project, USAID and Jamaican agricultural officials visited Illinois in late September for further evaluation. Congratulations to Leon A. Meyer and Burton E. Swanson, who led the efforts in developing the proposal.

John J. Nicholaides, III

INTERNATIONAL ACTIVITIES

The new farming systems economist on the ZAMARE (Zambia Agricultural Research and Extension) project is **Mesfin Bezuneh**. Dr. Bezuneh's address is c/o Kabwe Regional Research Station, P.O. Box 80908, Kabwe, Zambia.

Joseph Marion has accepted a two-year assignment as Research and Demonstration Station Development Specialist at the Northwest Frontier Province Agricultural University, Peshawar, Pakistan, as part of the TIPAN (Transformation and Integration of the Provincial Agricultural Network) project. Recently retired from the Nevada Cooperative Extension Service, Mr. Marion served previous overseas assignments in Nigeria and Brazil.

Mr. Marion and his wife, Enid, were briefed on the project at Southern Illinois University at Carbondale from September 16 to 25. They visited UIUC from September 17 to 19 for discussions with TIPAN participants and Thomas A. McCowen, John W. Santas, and William N. Thompson, International Agriculture. The Marion's address is NWFP Agricultural University, Peshawar, NWFP, Pakistan.

Won-Hyung Yoo completed his Ph.D. in Horticulture in August and has been appointed Assistant Professor in the Department of Horticulture, Jung Ang University, Seoul, Korea.

K. K. Shim was recently appointed Vice-President for Academic Affairs at Sung Kyun Kwaan University, Suwon, Korea. Dr. Kim received his Ph.D. in Horticulture at UIUC in 1972 and was a visiting professor here during the 1984-1985 academic year.

David J. Williams, Horticulture, discussed nursery production problems with researchers at East Malling Experiment Station, Merrist Wood College, and several commercial production nurseries in England, July 16 to 20.

Mahmood A. Khan, Foods and Nutrition, is taking a six-month sabbatical leave at the Hotel and Catering Research Center, Huddersfield Polytechnic, Huddersfield, England, from August through February.

Taking sabbatical leave in England from August 1985 through February 1986 is **Marilyn M. Dunsing**, Family and Consumer Economics. Dr. Dunsing is studying the consumption levels of families in Great Britain and their perception of these levels. She will consult with faculty at universities and government personnel.

Leif H. Thompson, Animal Sciences, lectured on progeny testing with offspring generated in heterospermic litters at swine testing stations in Denmark and Sweden and attended a two-day conference at Uppsala, Sweden, on freezing boar semen, August 17 to 27.

In early September, **Sam H. Johnson**, Agricultural Economics, discussed water management in Indonesia with per-

sonnel in the Public Works Department in Jakarta, met with officials of the Asian Development Bank in Manila, Philippines, and presented a paper at the Agroecology Workshop at the East-West Center, Honolulu, Hawaii. His paper was entitled "Incorporating Concerns for Productivity, Stability, and Sustainability into Farming Systems Research."

James E. Corbin, Animal Sciences, spoke at a feed manufacturer's meeting in Sao Paulo, Brazil, during the first week of September. In early October Dr. Corbin will lecture to veterinary students and a milling association in Buenos Aires, Argentina.

Jean M. Due, Agricultural Economics, was in Tanzania from August 31 to September 23 to attend a bean workshop at Sokoine University of Agriculture and to plan future cooperative research on beans with Tanzanian colleagues. From September 23 to 26, Dr. Due consulted with the CIAT (Centro Internacional de Agricultura Tropical, Cali, Colombia) bean team on ongoing research in Rwanda.

Robert A. Aherin, Agricultural Engineering, was a member of a four-person team on a study tour of Austria, England, Germany, Norway, and Sweden from September 7 to 28. The objectives of the tour were to develop stronger lines of communications on agricultural safety and health concerns between European and U.S. agricultural safety professionals, discuss international agricultural safety research needs, and study European agricultural safety systems for ideas that could be applied in the U.S. The trip was primarily sponsored by farm machinery companies.

The Inter-American Institute for Cooperation on Agriculture (IICA) has asked **James B. Sinclair**, Plant Pathology, to view soybean diseases in the field in Veracruz, Mexico, and recommend control measures, October 19 to 29.

INTERPAKS, the International Program for Agricultural Knowledge Systems, received a subcontract from the Farming Systems Support Project (FSSP) to conduct a one-week workshop in Zambia, October 27 to November 1. Entitled "Research-Extension Linkages in Farming Systems Programs," the workshop will be attended by people from Zambia and Malawi. Instructors from UIUC are **Sam H. Johnson**, Agricultural Economics, **John L. Woods**, INTERPAKS, and **John B. Claar** and **Earl D. Kellogg**, International Agriculture. The ZAMARE (Zambia Agricultural Research and Extension) project will be involved through the Zambian participants.

INTERNATIONAL CONFERENCES

Thomas W. Fermanian, Horticulture, presented a paper on sand topdressing of bentgrass greens at the Fifth International Turfgrass Research Society Conference, Avignon, France, and participated in a preconference tour, July 1 to 9.

Attending the International Meeting on Chloroplast Development, Rhodes, Greece, July 14 to 20, were **Constantin A. Rebeiz** and **Carole Rebeiz**, Horticulture. Constantin Rebeiz presented a symposium paper on chloroplast biosynthesis and chaired the symposium on plant pigment biosynthesis and Carole Rebeiz presented a poster session on chloroplast development. Following the conference Constantin Rebeiz lectured at Rhone Poulenc Co., Lyon, and Roussel Co., Marseilles, France, on photodynamic herbicides.

"Measurement Error and Curvilinear Model Estimation" was the title of the invited paper that **George Z. Gertner**, Forestry, presented at the International Union of Forestry Research Organization's Meeting on Statistical Methods, Mathematics, and Computers, Göttingen, West Germany, August 13 to 17. In addition, Dr. Gertner attended a conference on inventorying and monitoring endangered forests, Zurich, Switzerland, August 19 to 23.

"Animal Responses to Various Ionophores" was the title of the invited paper that **Larry L. Berger**, Animal Sciences, presented at the International Nutrition Conference, Brighton, England, August 18 to 25. Also attending were **Mary Frances Picciano**, **Adria Sherman**, and **Mohammed Sika**, Foods and Nutrition. Dr. Picciano presented two papers on the form of selenium in human milk from mothers delivering term and pre-term infants, Dr. Sherman presented a paper and invited workshop presentation on aspects of iron status and immune response, and Mr. Sika presented two poster sessions on the effect of dietary protein and phosphorous on growth and mineral content.

Attending the Workshop on Papillomaviruses, Molecular and Pathogenic Mechanisms, Kuopio, Finland, August 25 to 29, were **John P. Sundberg**, Veterinary Pathobiology, and **Kerry O'Banion**, Microbiology. Dr. Sundberg was chair of the animal papillomavirus section and gave the introductory lecture entitled "Animal Papillomaviruses — Basis and Clinical Concepts." With Mr. O'Banion and Manfred E. Reichmann, Microbiology, he also gave three poster sessions: "Domestic Rabbit Oral Papillomavirus: Characterization and Comparison to Cottontail Rabbit Papillomavirus," "Squamous Cell Carcinomas Associated with Canine Papillomaviruses," and "Papillomavirus Induced Lesions in Wild and Exotic Animals of North America."

From October 3 to 5, Dr. Sundberg will speak on animal models for papillomavirus research at a meeting in Bonn, Germany, on Viruses in Human Tumors. Following the meeting he will lecture at the Deutsches Krebsforschungszentrum, Heidelberg, Germany, and complete a collaborative project on the cytopathology of animal papillomaviruses at the Pasteur Institut in Paris, France.

Attending a three-day conference in late August at the Laveran International Foundation, Annency, France, on hemotropic diseases were **Richard E. Dierks**, Dean of the College of Veterinary Medicine, **Cynthia J. Holland**, **Mark A. James**, **Sonia Montenegro-James**, **Ibulaimu Kakoma**, **Federico J. Montealegre**, and **Miodrag Ristic**, Veterinary Pathobiology,

and **Lowell P. Hager**, **James H. Nichols**, and **Lisa M. Shamansky**, Biochemistry. Before the conference Dean Dierks and Dr. Ristic attended the Board Meeting of the Laveran International Foundation.

Burton E. Swanson, Agricultural Education and INTERPAKS, and **John L. Woods**, INTERPAKS, attended a conference entitled "Investing in Rural Extension: Strategies and Goals," held at the Agricultural Extension and Rural Development Centre, University of Reading, England, September 15 to 21.

Daniel Gianola, Animal Sciences, participated in the 36th meeting of the European Association of Animal Production in Thessaloniki, Greece, and developed a joint program in discrete multivariate analysis in genetics with researchers from France and Germany, September 27 to October 4. Dr. Gianola's trip was supported in part by a grant from MUCIA (Midwest Universities Consortium for International Activities).

VISITING RESEARCHERS

Burria Heuer, Volcani Center, Bet Dagan, Israel, is taking her sabbatical leave at UIUC to work with Archie R. Portis, Agronomy/USDA, on rubpcarboxylase activity determination. Dr. Heuer can be reached at S-215 Turner Hall, telephone 333-4370.

For one year beginning in August 1985, **Minoru Honda**, Nagasaki University Medical School, Japan, will work with Fred A. Kummerow, Food Science, on the relationship of diet to coronary artery thickness.

Jean-Louis Foulley, INRA, Jouy-en-Jouas, France, is a George A. Miller Visiting Scholar in Animal Sciences until August 1986. He is working with Daniel Gianola on multivariate analysis of discrete data in genetics.

Wei Zhen Yao, Agricultural Engineering Department, North-East Agricultural College, Harbin, China, arrived at UIUC in early September for a one-year stay as visiting professor in Agricultural Engineering. He will study methods and facilities used in researching animal and plant environmental engineering.

Working with Eugene B. Himelick, Plant Pathology and Section of Botany and Plant Pathology of the Illinois Natural History Survey, is **Abdol G. Ebrahimi**, College of Natural Resources, University of Mazandarin, Gogan, Iran. Dr. Ebrahimi arrived in September to work for one year on a cooperative research project on resistant varieties and species of elm to the Dutch elm disease fungus.

Won Jib Shin, Assistant Professor of Reproductive Physiology at Chonbuk National University, Chonju, Korea, is a visiting scholar with Philip J. Dziuk, Animal Sciences, until August 1986.

VISITORS RECENTLY ON CAMPUS

Ren-tse Wang, director of the Research Laboratory, and **Chieng-Liang Wang**, director of the Research and Development Division, Paolyta Co., Ltd., Taipei, Taiwan, discussed extrusion cooking and breakfast foods with Food Science faculty, August 19 to 23. Following their visit to UIUC, L. S. Wei, Food Science, accompanied them on a visit to INSTA PRO in Des Moines, Iowa.

Kanjana Bhudasamai, Division of Seed and Postharvest Physiology, and **Preecha Surin**, Oil Crops Diseases Section, Ministry of Agriculture, Thailand, visited UIUC from August 28 to 30 as part of a US study tour of *Macrophomina phaseoli*. They spent most of their time in the laboratory of James B. Sinclair, Plant Pathology, and also met with Sam H. Johnson and Melvin M. Wagner, Agricultural Economics, Harold E. Kauffman, INTSOY, and John L. Woods, INTERPAKS.

H. D. Fernando, University of Peradeniya, Sri Lanka, visited the Agricultural Engineering Department from September 3 to 6 to learn techniques for doing research on alternative fuels and engines.

Visiting Animal Sciences on September 5 and 6 was **Malcolm F. Fuller**, Rowett Research Institute, Aberdeen, Scotland. Dr. Fuller presented a seminar on protein metabolism in the pig.

Carlos Da Silva, Research Division, and **Jose Fonseca**, Planning Department, Guinea Bissau Ministry of Agriculture, visited UIUC on September 6 to discuss cooperative projects with INTSOY. They met with Harold E. Kauffman, INTSOY, Danny R. Erickson, Agronomy, Alvin I. Nelson, Food Science, and John W. Santas, International Agriculture.

Ten representatives of **John Deere Intercontinental Ltd.** visited the College of Agriculture on September 10. They discussed soybean cultivar experiments and minimum and zero tillage for soybeans and other crops with Harold E. Kauffman, INTSOY, Danny R. Erickson, Agronomy, John C. Siemens, Agricultural Engineering, John W. Hummel, Agricultural Engineering and USDA, and Royce A. Hinton, Agricultural Economics. The group also viewed experimental plots and farm machinery.

Cheng Jian Qiu, President, **Jinlin Zhao**, Director of Information Institute, **Wenyi Zhang**, Director of Sorghum Research Institute, **Jiren Mei**, sorghum seed specialist, and **Huajin Xin**, Deputy Chief of Foreign Affairs, Liaoning Academy of Agricultural Sciences, Shenyang, China, visited UIUC from September 19 to 22. They met with Dean John R. Campbell, D. Eugene Alexander, Johannes M. J. DeWet, Henry H. Hadley, and Russell T. Odell, Agronomy, Isabel Wong, East Asian Exchange Programs, and John W. Santas, International Agriculture.

Wendell E. Morse and **Donald E. Anderson**, USAID, were on campus September 27 to review the recently completed Malawi case study with the INTERPAKS team and discuss

future studies and activities. INTERPAKS team members for the Malawi case study were Kathleen Cloud, Earl D. Kellogg, and John B. Claar, International Agriculture, C. James Kaiser, Dixon Springs Agricultural Center, Andrew J. Sofranko, Agricultural Economics, and Burton E. Swanson, Agricultural Education and INTERPAKS.

INTERPAKS SHORT COURSE AT UIUC

Classes began on September 15 for the eleven participants in the INTERPAKS short course entitled "Organization and Operation of Agricultural Extension Services in the International Setting." The participants are **Joseph B. Abdulai**, Assistant Chief Agriculturalist, Ministry of Agriculture and Natural Resources, Sierra Leone; **Rana Fatshsingh Jambha**, Subject-Matter Specialist, Gujarat, India; **B. S. Ganesh Kumar**, Principal Agricultural Officer, Karnataka, India; **Kanta Kapur**, Senior Home Economist, Directorate of Extension, India; **Edward Mezazem**, Head, National Extension Service, Ministry of Agriculture, Cameroon; **Ngong-Nassah**, Institute of Agricultural Research, Cameroon; **Isaac Cimpiko Nkhungulu**, Chief Horticultural Officer, Department of Agriculture, Lusaka, Zambia; **Valentin Nlend**, Provincial Delegate of Agriculture, Ministry of Agriculture, Cameroon; **Joseph Nkwain Sama**, Professor of Agricultural Science, University Center, Dschang, Cameroon; **K. Vijayan**, Subject-Matter Specialist, Kerala, India; **Suranimala Wirasinghe**, Additional Deputy Director, Agricultural Extension, Department of Agriculture, Sri Lanka.

Course coordinator is John B. Claar, assisted by John W. Santas, Carolyn Sands, and Pamela J. Woodard. Approximately thirty university, World Bank, and other officials will teach during the five-week course. Because of increased interest, INTERPAKS hopes to offer the course more frequently and teach the course overseas.

PUBLICATIONS OF NOTE

Annotated Bibliography on Development and Transfer of Agricultural Technology, Volume 1, compiled by Jane S. Johnson, was published in August 1985. It is the first of several publications for the project on Technology Development and Transfer Systems in Agriculture, a part of INTERPAKS (International Program in Agricultural Knowledge Systems). The ninety-seven page publication has 271 annotated entries and author, title, and subject indexes. Single copies may be obtained by writing to INTERPAKS, University of Illinois, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, IL 61801, USA.

The three-volume **Proceedings of the Fifth World Congress on Water Resources**, held in Brussels, Belgium, June 9 to 15, 1985, and sponsored by the International Water Resources Association (IWRA), is available for \$75 plus \$15 for handling and mailing costs from: IWRA, University of Illinois, 208 North Romine Street, Urbana, IL 61801, USA.

SEMINARS AND WORLD FOOD DAY ACTIVITIES

All activities are open to the public.

month of October exhibit on world hunger — display case outside the Agriculture Library, 226 Mumford Hall.

month of October reading material on world hunger — reserve desk in the Agriculture Library, 226 Mumford Hall.

October 2 Dateline Malawi: Report on the INTERPAKS (International Program for Agricultural Knowledge Systems) Case Study — Kathleen Cloud, INTERPAKS.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

October 4 International Colloquium meeting.

4:00 p.m., 405 Levis Faculty Center, 919 West Illinois Street, Urbana.

October 8 Impact of Technology on Rural Society: The Caucau Region in Southern Bahia, Brazil — Frederick C. Fliegel, Agricultural Economics.

12:00 noon, 1040 Foreign Languages Building.

*Latin American Studies Brown Bag Series

October 9 On the International Front: Projects and Programs of the American Soybean Association — Kenneth Bader, Chief Executive Officer, ASA.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

October 16 World Food Day. Theme: Combatting Hunger in Sub-Saharan Africa.

9:00 a.m. to 4:00 p.m. Collection of canned goods by the Agriculture Council for local distribution.
South foyer, Illini Union.

11:00 a.m. to 2:00 p.m. National teleconference, third floor, Levis Faculty Center, 919 West Illinois Street, Urbana.

11:00 a.m. — 12:00 noon, panel discussion with Barbara Huddleson, Chief, Food Security and Information Service, FAO/Rome; Marie Angelique Savane, Director, Association of African Women and Research and Development, Dakar, Senegal; Hon. Paul Simon, senator from Illinois; and M. Peter McPherson, Administrator, U.S. Agency for International Development (USAID).

12:00 noon — 1:00 p.m., local panel discussion with Earl D. Kellogg, International Agriculture, Mary A. Keith, Foods and Nutrition; Lyle Reeser, agricultural consultant; John J. Nicholaides, International Agriculture, moderator.

1:00 p.m. — 2:00 p.m., teleconference open line nationwide to national panel.

International Agriculture Seminar. Combatting Hunger in Sub-Saharan Africa.

4:00 p.m., 426 Mumford Hall.

International Colloquium. Hunger in Africa: Long-Term Solutions — panel discussion by graduate students and faculty.

7:30 p.m., Levis Faculty Center, W. 919 Illinois Street, Urbana.

October 23 Another Green Revolution? Old Models and New Solutions for Meeting Africa's Food Crisis — Thomas J. Bassett, Geography.

12:00 noon, 1038 Foreign Languages Building.

*African Studies Brown Bag Seminar

October 23 MUCIA (Midwest Universities Consortium for International Activities) Project at the Institute of Agricultural and Animal Sciences, Rampur, Nepal — Marlowe D. Thorne, professor emeritus, Agronomy.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

October 24 Daily Activities in Households: Village Life in Gujarat, India — Sharon Hart, Cooperative Extension Service, and Frances M. Magrabi, Family and Consumer Economics.

12:00 noon, Friendship Lounge, YMCA, 1001 South Wright Street, Champaign.

*Women in International Development Seminar

October 30 Report on a Trip to Malawi — INTERPAKS case study team members.

12:00 noon, 1038 Foreign Languages Building.

*African Studies Brown Bag Seminar

October 30 The Development of an Instructional Farm in North Yemen — Douglas B. Bauling, Illinois Agricultural Experiment Station.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

November 1 International Colloquium meeting.

4:00 p.m., Levis Faculty Center Reading Room, 919 West Illinois Street, Urbana.

November 6 Lessons Learned: Developing Curriculum Materials for Women in International Development — panel discussion with participants of the 1985 Women in International Development team to India.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

November 9 Open Borders: The Movement of People and Ideas in the Ivory Coast and Beyond — African Studies Fall Round Table. Details in the November newsletter.

November 13 A Look at Belize: MUCIA'S Caribbean Agricultural Extension Project — Donald R. Smucker, Cooperative Extension Service.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

November 14 Wood Decomposition in Tropical Environments — Sandra Brown, Forestry.

12:00 noon, W-109 Turner Hall.

*Forestry Seminar

November 15 International Colloquium meeting.

4:00 p.m., 405 Levis Faculty Center, 919 West Illinois Street, Urbana.

November 20 Beef and Dairy Production in Coastal Ecuador — W. Michael Sager, Woodford County Cooperative Extension Service.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

November 21 Social Forestry in Southeast Asia — Guillermo Mendoza, Forestry.

12:00 noon, W-109 Turner Hall.

*Forestry Seminar

November 21 Educational Issues: Village Life in Gujarat, India — Barbara A. Yates, Educational Policy Studies.

12:00 noon, Friendship Lounge, YMCA, 1001 South Wright Street, Champaign.

*Women in International Development Seminar

December 6 International Colloquium meeting.

4:00 p.m., Levis Faculty Center Reading Room, 919 West Illinois Street, Urbana.

NEW INTERNATIONAL STUDENTS

The College of Agriculture and the College of Veterinary Medicine welcome the following new foreign graduate students to the University of Illinois at Urbana-Champaign:

AGRICULTURAL ECONOMICS

Syed Hussain, Pakistan, farm management and production economics; **Asi Napitupulu**, Indonesia, marketing and agricultural prices; **Jae Sun Roh**, Korea, natural resource economics; **Alfonso Ruiz-Guinazu**, Argentina, farm management and production economics.

AGRICULTURAL ENGINEERING

James Stuart Birrell, Zimbabwe, engines and fuels; **Nitin Manelkar**, India, food engineering; **Ysuuf Mohamoud**, Somalia, soil and water conservation.

ANIMAL SCIENCES

Claudio Bellaver, Brazil, swine nutrition; **Teresita Camacho**, Costa Rica, swine management; **Shu Wen Chen**, Taiwan, reproductive physiology; **Yang Da**, Taiwan, genetics; **Jose A. Gomez**, Panama, ruminant nutrition; **M. Alanna Kerr**, Canada, animal breeding; **Yong-Pil Kim**, Korea, reproductive physiology.

AGRONOMY

Liang-Jwu Chen, Taiwan, tissue culture.

FAMILY AND CONSUMER ECONOMICS

Musaddak Alhabeeb, Iraq, consumption economics; **Christopher Walson**, Nigeria, consumption economics; **Young-Sook Yoo**, Korea, consumption economics.

FOOD SCIENCE

Rafullah Khan, Pakistan, food processing; **Laulhati Salvador**, Philippines, food processing engineering; **Fatou Sanneh**, Gambia, soybean processing.

FOODS AND NUTRITION

M. Vida Revilla, Philippines, food service systems.

FORESTRY

Ahmed A. Shukri, Ethiopia, forest ecology.

HORTICULTURE

Spencer Bloomfield, Zambia, vegetable production; **Geunwon Choi**, Korea, growth regulators in vegetables; **Yau-Jan Chyan**, Taiwan, mineral nutrition of trees; **Hee Jae Lee**, Korea, tree physiology; **Illias Mohd. Khir**, Malaysia, vegetable production; **Ahmad Montazer-Zouhoor**, Iran, photosynthesis.

HUMAN DEVELOPMENT AND FAMILY ECOLOGY

Arathi Narayan, India, human development.

PLANT PATHOLOGY

Hanafy Fouly, Egypt, plant virology; **Ingyu Hwang**, Korea, epidemiology.

TEXTILES, APPAREL, AND INTERIOR DESIGN

Jin-Feng Tsai-Hwang, Taiwan, Textiles and Apparel; **Xinggong Liu**, Taiwan, Textiles and Apparel; **Nobuko Tanaka**, Japan, Textiles and Apparel; **Ren-Yueh Wang**, Taiwan, Textiles and Apparel.

VETERINARY BIOSCIENCES

Robert Wong-Pack, Canada, toxicology.

VETERINARY CLINICAL MEDICINE

Chih-Huan Yang, Taiwan, anesthesiology.

AFRICA RESEARCH GRANTS

October 21 is the application deadline for research grants from the African Studies Center. Students and faculty may apply. The grants, which may be used for travel or applied to other research needs, range from \$50 to \$500. Application procedures are available from the African Studies Center, 1208 West California Street, room 101, Urbana, IL 61801; telephone (217) 333-6335.

NEW SHORT COURSE OFFERED BY SIUC

February 1, 1986, is the application deadline for a new course being offered by Southern Illinois University, Carbondale, entitled "Tractor and Machinery Maintenance, Adjustments, and Operation." The course will be held at SIUC from May 19 to June 13, 1986. Educators, agronomists, government officials, and supervisory personnel from developing countries who are responsible for the selection, purchasing, maintenance, and utilization of machines for food production will find the course beneficial. Details about the course are available from Howard H. Olson, Director of International Agriculture, Southern Illinois University, Carbondale, IL 62901, USA; telephone (618) 536-7727; telex 9109962540.

INTERPAKS ASSOCIATES WANTED

John L. Woods, who assumed the directorship of the International Program for Agricultural Knowledge Systems (INTERPAKS) in July, is interested in meeting faculty, staff, and graduate students who might want to be associated with future INTERPAKS activities. One of the functions of INTERPAKS is to be a link between the university community and international involvement. Broadly speaking, INTERPAKS deals with extension, library science, communications, management, sociology, and other related subjects. The development of new INTERPAKS programs will depend on faculty interest. To find out more about INTERPAKS, call or write Dr. Woods at (217) 333-5831, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, IL, 61801.

INTER-BASIN WATER TRANSFER SEMINAR

The International Water Resources Association (IWRA) has issued a call for papers and preliminary announcement for the Seminar on Inter-Basin Water Transfer, to be held June 15 to 19, 1986, in Beijing, China. The seminar is sponsored by IWRA and the Chinese Society of Hydraulic Engineering. More information is available from IWRA, University of Illi-

nois, 208 North Romine Street, Urbana, IL 61801, USA, telephone (217) 333-6275.

SCIENTISTS PLEDGE INTERNATIONAL COOPERATION

Members of the American Phytopathological Society (APS) passed this resolution during their annual meeting, August 1985: "Recognizing that the continuing increase in the world's human population and concomitant need to increase food production and availability are major problems confronting mankind, the APS reaffirms its commitment to encourage plant health research and education, particularly in developing countries. The APS urges its members to make available their knowledge and expertise in plant disease control to countries affected by food shortages. Further, the APS pledges to provide technical guidance and rapid transfer of information to the international community and supports all efforts to increase food supplies in developing countries. However, the APS further recognizes that the earth has a finite carrying capacity for the human species, and that improvements in agricultural technology cannot be expected to cope indefinitely with the needs of constantly increasing populations."

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit newsletter items. Contact the Office of International Agriculture to receive your own copy of this newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

Office of International Agriculture
College of Agriculture
University of Illinois at Urbana-Champaign
113 Mumford Hall
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UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

College of Agriculture and College of Veterinary Medicine,

University of Illinois at Urbana-Champaign

1. Gregory Drive, Urbana, IL 61801, USA. Telephone (217) 333-6420; Telex 206957

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INTSOY

Since the establishment of the International Soybean Program (INTSOY) at UIUC in 1973, its purpose has been to improve human nutrition around the world through the use of soybeans. Cooperating with national, regional, and international organizations, INTSOY works toward this goal through research, training courses and study programs, regional and international conferences, publications, feasibility studies, and testing and breeding programs. Activities are directed toward developing countries in the tropics and subtropics which, in the past, have not shared in the benefits from soybeans.

The United States Agency for International Development (USAID) provides core funding for INTSOY. Special grants from the Agency, CARE, FAO (Food and Agriculture Organization), IBPGR (International Board for Plant Genetic Resources), the Rockefeller Foundation, UNDP (United Nations Development Program), and UNICEF (United Nations Children's Fund) have supported a range of projects.

New USAID contract. INTSOY recently developed a new five-year collaborative agreement with USAID. Work under this contract includes developing and disseminating new food and feed products from whole soybeans and, in cooperation with national and international agricultural research institutions, promoting the use of soybeans through research and training activities, collaborative research on exotic diseases and insects, and exchange of germplasm, literature, and information.

Utilization. The focus of the new program is on soybean utilization. It will build on research and extension activities from two INTSOY country programs and on previous utilization work at UIUC.

From 1975 to 1981, INTSOY scientists worked collaboratively with the Government of Sri Lanka on the Soybean Development Project. Support was provided by UNDP, FAO, UNICEF, and CARE. In 1979, the Soybean Foods Research Center, which includes a pilot plant to develop and produce soyfoods and a training facility, was opened. The Center perfects local recipes, develops and processes commercial soyfoods, and advises entrepreneurs interested in marketing soyfoods. The ad-

jacent training facility contains twenty-one cooking units that can accommodate thirty trainees at a time.

INTSOY utilization work in Peru from 1977 to 1981 was part of a project with the Instituto Nacional de Desarrollo Agro-Industrial in Lima. The project concentrated on product identification and development of soyfoods. In 1979, a Spanish-language cookbook was published with eighty recipes based on whole soybeans, soybean cake, and soy flour. INTSOY also worked with industry on the introduction of three soybean products: a beverage in both liquid and powdered form, soy-fortified bread, and soy-fortified noodles.

UIUC has been involved in the utilization of whole soybeans for food since 1969. Scientists in the Department of Food Science developed processing methods that can be used commercially and in the home for a wide variety of products, including drum-dried flakes, canned soybeans, dairy product analogs, and snack foods.

The new soybean utilization program will be a three-phase endeavor. First will be the research at UIUC to develop new soy products and processes from whole soybeans. In the second phase, simple "how to" manuals and equipment lists will be prepared for less developed countries and entrepreneurs interested in investing in production of soy products. During the third phase, INTSOY will undertake limited, on-site technical assistance in soybean utilization for governments and private firms in less developed countries.

The development work at UIUC is focused on five areas: a simple, relatively low-cost process to produce a high quality soy beverage which has no patent restrictions; use of extrusion cooking to produce soybean/grain, soybean/vegetable, and soybean/fruit products for weaning foods, breakfast foods, and soups; a low-cost farm or village level oil extraction process, which will give farmers two products to market; refinement of village and home level processes for preparing soybean dishes for home consumption; and simple processes for combining soybean residues with other ingredients to make animal feed.

The new products and processes will be tested and disseminated by network cooperators in Africa, Asia, and Latin America. The International Institute of Tropical Agriculture (IITA) will serve as the regional

headquarters for Africa. In Asia, regional activities will focus on India and Sri Lanka.

Work on exotic diseases and insects. Researchers in the program on plant protection are studying diseases and insects present in other countries which, if introduced to the U.S., could seriously damage the soybean industry. Two diseases being studied are soybean rust and pyrenochaeta leaf blotch. Rust is the most serious soybean disease in Asia. Pyrenochaeta leaf blotch causes serious losses in central and southern Africa.

Soybean germplasm exchange and biotechnology. INTSOY will work with the International Board for Plant Genetic Resources and national programs to collect and preserve soybean germplasm. The U.S. now has less than one quarter of the world's soybean germplasm.

INTSOY research on biotechnology will help develop improved techniques for transferring beneficial characteristics from wild species to the cultivated species, *Glycine max*.

Benefits from the program. Although soybeans are well accepted as a food source in oriental cultures, use outside the Orient is primarily for oil and meal, with most of the meal used for animal feed. There is tremendous need for expanded research on uses of raw whole soybeans and constraints to its wider acceptance as a component of the human diet. The development of new small- and medium-scale processes for soy beverages, extruded soyfoods, and partial expulsion of oil will introduce millions of people in less developed countries and the United States to soy products. Direct consumption of whole soybean products by low and medium income people around the world will lead to greatly improved nutrition among consumer groups. As well, there will be new and expanded markets for U.S. soybeans, both in the U.S. and abroad.

Work on exotic pests and diseases will help protect soybean producers from the natural spread or accidental introduction of destructive organisms. Despite U.S. quarantine procedures, there are numerous cases of accidental introduction of diseases and pests. An example is the corn blight epidemic of the early 1970's when a new strain of the fungus caused serious losses for mid-western and southern corn farmers. Knowledge gained in studying the organism in Asia and plant breeding work with resistant cultivars developed from foreign germplasm enabled U.S. scientists to quickly overcome the problem.

Benefits from germplasm exchange are enormous. For example, UIUC and USDA scientists recently developed three soybean lines which are free of the Kunitz trypsin

inhibitor. Trypsin is an important digestive enzyme. Soybean cultivars currently available must be heated to destroy the trypsin inhibitor before being fed to swine and poultry. The new lines could save U.S. soybean producers millions of dollars annually by reducing or eliminating an expensive part of the processing. The new lines were developed from germplasm collected in Korea.

Recent and upcoming training activities. One of INTSOY's main functions is education and training, which is accomplished through conferences, workshops, and short courses.

In January 1985, the Government of Sri Lanka and INTSOY sponsored a workshop on soybean utilization for participants from twelve Asian and African countries. The Sri Lanka soyfoods research center and pilot processing facility served as an excellent model of how a country can introduce and popularize soyfoods.

In March 1985, INTSOY, AVRDC, and IITA scientists conducted a training course in Pakistan on soybean technology. Course objectives included raising the overall level of knowledge of soybean technology among the research and extension scientists in Pakistan, and discussing ways soybeans can help solve Pakistan's chronic edible oil deficit.

In early 1986, a workshop on soybean technology will be held in Zimbabwe for the countries of southern Africa, an area where soyfoods can substantially improve the diets of many people.

New INTSOY publication. The latest volume of results from INTSOY's international cultivar testing program is now available: International Soybean Variety Experiment, Tenth Report of Results, 1983, by J. A. Jackobs, C. A. Smyth, and D. R. Erickson (INTSOY series number 28).

For more information about INTSOY or copies of publications call or write Harold E. Kauffman, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, IL 61801, telephone (217) 333-6422.



NICHOLAIDES' NOTES

An interesting and informative series of events were held at UIUC to observe World Food Day on October 16. For the second year in a row, faculty and students at UIUC prepared the study packet distributed nationwide by the National Committee for World Food Day. Our thanks to Carolyn M. Sands, Sheldon W. Williams, Mary Ann Ross, and Earl D. Kellogg for preparing this material. Congratulations are in order also to Leon A. Mayer and his committee of Robert E. Brown, Donald E. Crummey, J. Terry Iversen, Beth E. Johnston, Carolyn M. Sands, David L. Thomas, Marcia N. White, Sheldon W. Williams, Raymond A. Woodis, and Heather Young for organizing our observance of World Food Day.

The World Food Day/International Agriculture Seminar entitled "Combating Hunger in Sub-Saharan Africa" by John A. Becker, Foreign Service Officer based with us this year on a Reverse Joint Career Corp appointment, drew approximately one hundred and forty people. A special word of thanks to John A. Becker; to our local panel during the national teleconference, Nalini Ayya, Mary A. Keith, Earl D. Kellogg, Shashidhara Kolavalli, and Lyle G. Reeser; and to the International Colloquium panel on famine in Africa, Thomas J. Bassett, John A. Becker, Kathleen Cloud, Ibulaimu Kakoma, Sue Rocke, and Lare Sissay, for helping to make this day a success.

Anyone interested in the current agricultural situation would, I believe, benefit from reading Dean John R. Campbell's excellent speech "Agriculture is Everybody's Business," which he presented to the Peoria Area Chamber of Commerce on August 20. Copies are available from the Dean's office in 101 Mumford Hall.

John J. Nicholaides, III

INTERNATIONAL ACTIVITIES

From August through November, **Scott K. Robinson**, Wildlife Research Section of the Illinois Natural History Survey, will study tropical community ecology in the Manu National Park in southeastern Peru.

As part of a People-to-People Citizen Ambassador Program, **Roscoe Randell**, Agricultural Entomology and Section of Economic Entomology of the Illinois Natural History Survey, toured China with a team of twenty-seven vegetable producers and researchers, September 20 to October 10. They visited farms, communes, and universities in three provinces, and met with members of the Ministry of Agriculture, Animal Husbandry, and Fisheries.

Borje K. Gustafsson, Veterinary Clinical Medicine, will be at the University of Zurich, Switzerland, from November 1985 through May 1986 for a sabbatical leave. He will conduct research on uterine infections in the cow, and pain and stress-related factors in parturition in the cow.

Ellen Mason, graduate student in Animal Sciences, is a graduate assistant in the Office of Resident Instruction and the Office of International Agriculture. Ms. Mason is working on projects that will make information on international agricultural opportunities more available to undergraduates.

Burton E. Swanson, Agricultural Education and INTERPAKS, was at the Centro Internacional de Mejoramiento de Maiz y Trigo (CIMMYT) in Mexico on October 10 and 11. He met with **Robert Raab**, doctoral candidate at UIUC in International Agricultural Education, who is working at CIMMYT.

Sponsored by Borden World Trade, **Michael F. Hutjens**, Animal Sciences, presented seminars on calf management at Seoul, Kwang Ju, Busan, and Taegu, Korea, from October 14 through 17.

William C. Wagner, Veterinary Biosciences, will be in Germany from October 21 to November 9 to continue collaborative research in hormone synthesis in the placenta during late pregnancy in the cow. Dr. Wagner is working with scientists at the Institut für Tiezzucht, Marilensee, and the University of Giessen.

For the first half of November, **Sam H. Johnson**, Agricultural Economics, will be in Indonesia planning an irrigation management research project funded by the Asian Development Bank.

INTERNATIONAL MEETINGS

David J. Voegtlin, Faunistics Section of the Illinois Natural History Survey, presented an invited paper entitled "Searching for the Source of the Annual Spring Migrants of *Rhopalosiphum maidis* in North America" at the International Symposium on Population Structure, Genetics, and Taxonomy of Aphids, Smolenice, Czechoslovakia, September 9 to 14.

Marvin P. Bryant, Animal Sciences, attended a meeting of the Trust of Bergey's Manual of Systematic Bacteriology, September 11 to 14, Stamford, England.

Keith W. Kelley, Animal Sciences, was an invited

speaker at the Professional Corporation of Veterinary Surgeons of Quebec annual meeting, Ottawa, Canada, September 21. His talk was entitled "Interface of Pathobiology and Environment: Physiological Mechanisms."

"Long-distance Spread and Other Aspects of the Epidemiology of Soybean Mosaic Virus" was the title of the invited paper presented by **Michael E. Irwin**, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey, at the Association of Applied Biologists meeting, September 24 to 26, Reading, England.

Theodore R. Peck, Agronomy, was one of fifteen invited participants in a soil testing and fertilizer recommendations workshop sponsored by the Institute of Soils and Fertilizers, Beijing Academy of Agricultural Sciences, China, October 5 to 23.

On October 8, **David D. Pyle**, Cooperative Extension Service, presented a paper entitled "Youth Development in Rural America: 4-H - A Community Based Approach" at the International Youth Services Conference in Chicago.

Erwin Small, Veterinary Clinical Medicine, was in Israel and Egypt with the Society of International Veterinary Symposia, October 7 to 25. The first session of the program was held in conjunction with the opening of the new veterinary school at Rehovot, Israel, and the second session was held with faculty of the veterinary school at Cairo University, Giza, Egypt. Dr. Small serves the Society as executive secretary and program coordinator.

As part of World Food Day activities, **Kathleen Cloud**, Office of International Agriculture, and **Jane Gleason**, graduate student in Agricultural Economics, presented a seminar entitled "Women, Food Production, and World Hunger" at Illinois State University, Normal, October 17.

Margo DeLey, Women in International Development and Office of International Agriculture, will present a position paper entitled "Curriculum Development to Respond to the Needs of Business, Government, and Agriculture for Personnel with International Language Skills" at a conference sponsored by the Illinois State Board of Education, Springfield, November 15 and 16.

VISITING RESEARCHERS

Robert Dantzer, INRA/INSERM, University of Bordeaux, France, is spending a sabbatical leave in Animal

Sciences, October 1985 to October 1986. He will work on immunology and physiologic basis of behavior with Keith W. Kelley, Stanley E. Curtis, and Harold W. Gonyou.

Gerhard Flachowsky, Department of Animal Nutrition, Karl Marx University, Leipzig, Germany, is spending October 15 to November 15 in the College of Agriculture. Dr. Flachowsky is interested in ruminant nutrition in beef and dairy feeding and particularly the utilization of agricultural and industrial by-products as feed. Sponsored by the International Research and Exchange Board (IREX), his program is being coordinated by Upson S. Garrigus, Animal Sciences, 333-0124, and Arthur J. Muehling, Agricultural Engineering, 333-9313.

Sponsored by the Indo-US Fellowship Programme, **Kanaan Nanda** is working with Jack M. Widholm, Agronomy, for ten months on somatic hybridization and genetic manipulation in maize and soybeans.

Jose Pereira, School of Agronomy, Universidad de Oriente, Monagas, Venezuela, is spending his sabbatical leave with Walter E. Splittstoesser, Horticulture. They are conducting research on cassava. Dr. Pereira, who received his Ph.D. from UIUC's Department of Horticulture in 1970, can be contacted at 201 Vegetable Crops Building, 333-1905, until the end of the fall semester.

Geraldo L. Colnago, Veterinary Faculty, Universidad Fluminense, Brazil, completed a three-month visiting professorship in Animal Sciences in October. Dr. Colnago worked with James E. Corbin in canine nutrition.

Under the sponsorship of USAID, **Farouk Habib Ghobrial** and **Mohamed Aly Shaker**, Ministry of Supply, Egypt, spent October 7 to November 1 at UIUC for a specialized training program on soybean processing for food uses. The program was presented by Alvin I. Nelson, Lun-Shin Wei, Sing-Wood Yeh, and Wilmot Wijeratne, Food Science, in cooperation with INTSOY.

Wieslaw Barej, Deputy Rector, and **Mieczyslaw Adamowicz**, Dean of the School of Agricultural Economics, Warsaw Agricultural University, Poland, visited the Colleges of Agriculture and Veterinary Medicine on October 15 and 16 as part of a U.S. tour. They met with Earl D. Kellogg, International Agriculture, Wesley D. Seitz, Donald L. Uchtmann, and Wojciech Florowski, Agricultural Economics, Larry L. Berger, Animal Sciences, John A. Milner, Food Science, Mary Frances Picciano, Foods and Nutrition, Charles E. Ol-

son, Resident Instruction, and Lloyd C. Helper and Tatiana E. Banak, Veterinary Medicine. Dr. Barej and Dr. Adamowicz were escorted by Elinor Ford, U.S. Department of State.

On October 21, **Katsuya Yaguchi**, an agricultural economist in the Research and Legislative Reference Department, National Diet Library, Tokyo, Japan, arrived at UIUC as a visiting research associate in Agricultural Economics. Dr. Yaguchi will spend three months gathering information on agricultural structure and farm management in Illinois.

VISITOR COMING TO CAMPUS

Panya Hiranrusme, Dean of the School of Agricultural Extension and Cooperatives, Sukhothai Thammathirat Open University, Bangkok, Thailand, will meet with university administrators and faculty in the College of Agriculture, November 26 to December 9, to discuss implementing a graduate program at his university, which currently has 10,000 undergraduate students. Call Pamela Woodard at 333-5838 to meet with this visitor.

VISITORS RECENTLY ON CAMPUS

From September 18 to 20, **Janos Berenji**, **Emmerich Brandle**, and **Franz Kornek** visited with Henry H. Hadley, Agronomy, discussing problems in broomcorn research and production. Mr. Berenji is a broomcorn breeder from Petrovac, Yugoslavia, on a five-month study tour of sorghum research in the U.S. Mr. Brandle and Mr. Kornek are involved in a large-scale broomcorn production project in Ethiopia for the Byars International Company. They also visited broom factories at Arcola and Greenup and a brokerage firm at Arcola, and observed seed production at Ramsey.

M. Journet and **M. Vermoret**, INRA, France, met with faculty in Animal Sciences on September 24. Dr. Journet presented a seminar on feeding nitrogen to the dairy cow.

On September 24 and 25, **Tamas Szundy**, corn breeder of the Hungarian Academy of Sciences, met with the corn group in Agronomy.

Michael Baxter, Senior Rural Development Officer, West African Projects, World Bank, lectured to the INTERPAKS short course for senior international extension advisers, September 26.

Wang Weiliang, China International Economic and Technical Cooperation Consultants Inc., Beijing, **Nie Jiuquan** and **Wang Xi Cai**, Liaoning Province Department of Agriculture and Animal Husbandry, **Zhao Jia-ben**, Liaoning Branch of the Agricultural Bank of China, **Gao Feng Ting**, Liaoning Animal Husbandry Industry and Commerce Corporation, and **Man Le Qian**, Planning Commission of Liaoning Province, Shenyang, China, visited campus and toured dairy research facilities on October 2 escorted by Dewayne E. Dill, Animal Sciences. The Chinese team met with Dean John R. Campbell on October 3. Walter L. Keats, president of Middle West Genetics Ltd., Kenilworth, Illinois, accompanied the team.

Scheduled through the 4-H International Program, **Roberto Rios** and **Jose Carrasco**, young farmers from Panama, arrived at UIUC on October 2 for a three day visit. They are participants in the CAPS (Central American Peace Scholarship) Program sponsored by USAID. While at UIUC they met with Leif H. Thompson, Animal Sciences, and Gerald G. Gast, Cooperative Extension Service, in a program arranged by Ann F. Rund, Cooperative Extension Service. Mr. Rios and Mr. Carrasco will live on farms in Illinois until mid-February.

Masayuki Hayashi, Chief, Research and Development Department, Torigoe Flour Milling Company, Fukuoka, Japan, toured Food Science facilities on October 3.

Visiting the College of Agriculture on October 11 was **Juan Vega**, Director of Agricultural and Marine Sciences, Technical Institute of Monterrey, Mexico. He met with Charles M. Brown and Richard L. Bernard, Agronomy, Roger L. Courson, Vocational Agriculture Services, and Harold E. Kauffman, Margo De Ley, and John L. Woods, International Agriculture. Dr. Vega was accompanied by Gordon Rosskamp, Western Illinois University.

Ambassador to the U.S. from Zambia and former Prime Minister of Zambia, **Nalumino Mundia**, and **Alex Tubi**, First Secretary for Political Affairs, visited UIUC on October 11 and 12. They met with university administration and faculty in the College of Agriculture, African Studies, and International Programs and Studies.

Deputy Director of the Asian Vegetable Research and Development Center (AVRDC), **Paul Sun**, discussed cooperative activities in the Asian Soybean Improvement Network with James B. Sinclair, Plant Pathology, and Harold E. Kauffman, INTSOY, on October 14.

Leroy Hanson, president of INSTAPRO, Des Moines, Iowa, visited UIUC on October 15 to discuss cooperative research on extrusion cooking with scientists in Food Science, Animal Sciences, and INTSOY. INSTAPRO donated an extruder to INTSOY last year.

Bo Christiansen and **Kurt Nielsen**, Thrige Agro Company, Denmark, visited Agricultural Engineering on October 22 to discuss grain seeding equipment used in Illinois and in the U.S.

Zeng Dechao and five staff members from the Beijing Institute of Agricultural Engineering, China, visited Agricultural Engineering from October 29 to November 1. They inspected instruction, research, and extension work in the department and visited experimental farms, private farms, and dealers.

SEMINARS

November 1 New Directions for International Agriculture — John J. Nicholaides, Director and Associate Dean, Office of International Agriculture, UIUC.
4:00 p.m., Levis Faculty Center Reading Room, 919 West Illinois Street, Urbana.
*International Colloquium Seminar

November 6 Lessons Learned: Developing Curriculum Materials for Women in International Development — panel discussion with participants of the 1985 Women in International Development team to India.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

November 6 Peasant Households and Agrarian Change in Africa — Claude Meillassoux.
7:30 p.m., room 407 Levis Faculty Center, 919 West Illinois Street, Urbana.
*MillerComm Lecture

November 9 Open Borders: The Movement of People and Ideas in the Ivory Coast and Beyond.
8:45 a.m. to 10:00 p.m., Levis Faculty Center Music Room, 919 West Illinois Street, Urbana.
*African Studies Fall Round Table

November 13 A Look at Belize: MUCIA'S Caribbean Agricultural Extension Project — Donald R. Smucker, Cooperative Extension Service.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

November 14 Wood Decomposition in Tropical Environments — Sandra Brown, Forestry.
12:00 noon, W-109 Turner Hall.
*Forestry Seminar

November 14 Overview of the Role of Agricultural Technology in Changing Societies — Medea Benjamin, Institute for Food and Development Policy.
12:00 noon (bring your own lunch), Latzer Hall, YMCA, 1001 South Wright Street, Champaign.
*YMCA/Champaign-Urbana New World Agriculture Seminar

November 15 Graduate Student Research in Tanzania — Tim Rocke, graduate student in Agricultural Economics, and Sue Rocke, international nutritionist.
4:00 p.m., room 405 Levis Faculty Center, 919 West Illinois Street, Urbana.
*International Colloquium Seminar

November 20 Perceptions on Agriculture in the U.S.S.R. — W. Michael Sager, Woodford County Cooperative Extension Service.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

November 21 Social Forestry in Southeast Asia — Guillermo Mendoza, Forestry.
12:00 noon, W-109 Turner Hall.
*Forestry Seminar

November 21 Educational Issues: Village Life in Gujarat, India — Barbara A. Yates, Educational Policy Studies.
12:00 noon, Friendship Lounge, YMCA, 1001 South Wright Street, Champaign.
*Women in International Development Seminar

December 6 Trends and Careers in the U.S. Agency for International Development — John A. Becker, Foreign Service Officer.
4:00 p.m., Levis Faculty Center Reading Room, 919 West Illinois Street, Urbana.
*International Colloquium Seminar

SETTING THE RECORD STRAIGHT

Yang Da, graduate student in Animal Sciences, is from the People's Republic of China. Mr. Da's home country was incorrectly reported in the October newsletter.

SPANISH FOR AGRICULTURE

Spanish 142, Elementary Spanish for Agriculture and Related Fields II, will be given in the spring semester. Students with one semester of college-level Spanish or two to three years of high school-level Spanish may enroll. Enrollment information is available from Margo DeLey, 324 Coble Hall, 333-1977.

NEW PUBLICATIONS

The latest volume of results from INTSOY's international cultivar testing program is now available: **International Soybean Variety Experiment, Tenth Report of Results, 1983**, by J. A. Jackobs, C. A. Smyth, and D. R. Erickson (INTSOY series number 28). For a free copy call or write INTSOY, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, IL 61801, telephone (217) 333-6422.

The World Agriculture Service Society is starting a newsletter for students interested in **international agriculture and development**. The first issue will be published November 10. For more information about the newsletter write to the World Agriculture Service Society, WASS Newsletter Committee, 106 Armsby, Pennsylvania State University, University Park, PA 16802.

Directory of International Employment Opportunities is available for review in the Office of Resident Instruction, 108 Mumford Hall, the Office of International Agriculture, 113 Mumford Hall, and the reserve desk of the Agriculture Library, 226 Mumford Hall. This loose-leaf notebook will be updated regularly.

TRAVEL FUNDS: FEBRUARY 1 DEADLINE

February 1, 1986, is the application deadline for international travel funds available to University of Illinois faculty and staff through MUCIA (Midwest Universities Consortium for International Activities) and the Office

of the Vice President for Academic Affairs. Grants of up to \$1,000 are available to support international travel which will result in the development or enhancement of international programs at the University of Illinois. Matching funds must be secured from institutional sources. The next application opportunity for 1986 is October 1. Guidelines and request forms are available from T. John Kim, MUCIA Liaison Officer, 311 Coble Hall, 801 South Wright Street, Champaign, IL 61820, telephone (217) 333-1993.

KELLOGG NATIONAL FELLOWSHIP PROGRAM

December 31, 1985, is the application deadline for the 1986 Kellogg National Fellowship Program. The aim of the program is to assist future leaders in developing skills to address broad social issues, especially agriculture, education, and health, in creative ways. The three-year program is designed for individuals who are in the early years of their careers. During the program, fellows should spend approximately twenty-five percent of their time on fellowship-related activities. Awards will not be made for basic research nor for the acquisition of skills within the applicant's principal discipline. Information on application requirements is available from department heads or the Office of International Agriculture, 113 Mumford Hall, 333-6421.

INTERNATIONAL CONSORTIUM TO BE FORMED

INTERPAKS (International Program for Agricultural Knowledge Systems) of UIUC, the Agricultural Extension and Rural Development Center (AERDC) of the University of Reading, England, and the International Agriculture Center of the Agriculture University in Wageningen, Netherlands, are forming a consortium for organizations working with agricultural knowledge systems. The group plans to meet in Wageningen in March 1986 to implement a collaborative agreement.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit newsletter items. Contact the Office of International Agriculture to receive your own copy of this newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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AGX

December 1985, No. 91

MUTUAL AID

In the past several months, two spectacular concert benefits were held, Live Aid to help starving people in Africa and Farm Aid to assist economically strapped farmers in the U.S. International agricultural development is another type of aid, Mutual Aid, because it benefits both the poor of lesser developed countries (LDCs) and U.S. farmers. This article explains why it is not only important but vital that we continue international agricultural development.

It is paradoxical that as U.S. farmers cope with production surpluses and major declines in export sales (down to an estimated \$32 billion in 1985 from \$43.8 billion in 1981), many countries of the developing world are experiencing severe food shortages. Poverty and hunger in LDCs and the decline in prosperity of the U.S. agricultural sector are interdependent. International agricultural development is Mutual Aid, a way to help improve living standards both for people in LDCs and American farmers.

Economic Benefits to U.S.

One reason sometimes cited for the economic problems of the U.S. agricultural sector is agricultural development work in LDCs. Those who hold this view argue that by helping developing countries grow food we cut off a market for U.S. farmers. Much evidence can be cited, however, which counters this argument. International agricultural development in which U.S. universities participate has not caused the problems faced by our farmers. In fact, to stop international agricultural development would result in decreased U.S. agricultural exports, the very thing our farmers and other concerned citizens are trying to prevent.

LDCs, our fastest growing market. In LDCs, the demand for U.S. agricultural products is dependent on economic prosperity. Agriculture is the largest sector in the economies of most developing countries. Improved domestic agricultural production contributes to the development of non-agricultural sectors and to increased availability of foreign exchange. As people's incomes increase, so do the demands for meat and value-added products, much of which will be purchased from the U.S. In other words, food exports to LDCs are directly related to their ability to pay. Poor people and poor

countries don't buy food or much of anything else. The average family income in many developing countries is less than \$300 per year. How much U.S. agricultural products can these people buy?

LDCs have the fastest population growth rate in the world. Each day, 224,000 more people are added to the face of the earth, roughly equal to twice the population of Champaign-Urbana or fifty times the population of Tuscola. In less than three years that equals the population of the United States. Fully 90 percent of this increased population by the year 2000 will be in LDCs. Developing countries will only be able to purchase food for their growing populations when they have a solid economic base.

Developing countries are our fastest growing market. From 1976 to 1982, U.S. agricultural exports to LDCs increased annually by 17 percent. LDCs purchased 30 percent of our agricultural exports in 1976; by 1984 their share grew to 49 percent.

Opposite end examples. Brazil is often mentioned as a developing country where increased agricultural production has had a negative effect on U.S. agricultural exports. According to a recent paper by Earl D. Kellogg, Associate Director of the Office of International Agriculture, the 66 percent increase in Brazil's agricultural production from 1970 to 1983 was one of the fastest worldwide and was accompanied by rapid growth in purchases of U.S. agricultural products. From 1970 to 1983, Brazilian imports of U.S. food products increased from \$77 million to \$471 million. During this period, the proportion of U.S. commercial agricultural sales (versus U.S. government-supported export sales) increased from 36 percent to 99.7 percent. Increased commercial sales are what our farmers need.

This is impressive, but what about soybeans? In spite of expansion of Brazil's soybean sector, Brazil has actually imported greater amounts of U.S. soybeans and soybean products. The value of U.S. exports of soybeans and soybean products increased from less than \$1 million in 1970 to \$35 million in 1982, an average annual increase of 43 percent. Similar figures for the same period exist for wheat and wheat products (from \$41 million to \$452 million, a 27 percent average annual increase) and corn and corn products (from \$0.3 million to \$154 million, an 86 percent average annual increase).

At the other end of the scale, Dr. Kellogg reported that from 1970 to 1983, total agricultural production in Sierra Leone increased only 21 percent, about one-third of Brazil's increase. Per capita agricultural production in Sierra Leone declined by 11 percent during that period. A perfect candidate for increased sales of U.S. agricultural exports, you might say. Look at the data. Average U.S. agricultural exports to Sierra Leone were \$3.5 million in 1970-1972 and \$6.2 million in 1981-1983. However, commercial sales decreased from 66 percent of the total in 1970-1972 to 31 percent in 1981-1983. Certainly, this is not a situation which our farmers want to see.

Brazil and Sierra Leone reflect accurately the possibilities for U.S. agricultural exports to countries at both ends of the development scale. Dean John R. Campbell, in testimony before the U.S. House Agriculture Committee in October 1983, stated that the faster the growth in agricultural production in developing countries, the greater the increase in agricultural imports. Specifically, during the 1970s and early 1980s, ten developing countries with fast rates of growth in agricultural production increased their food imports by an average of 68 percent, while ten developing countries with slow agricultural production growth rates increased food imports by only 3 percent. In developing countries, changes in per capita domestic agricultural production are positively correlated with per capita imports of agricultural products.

Causes of Decreased Exports

What, then, are the causes of decreased U.S. agricultural exports?

- One of the most important causes is the high value of the U.S. dollar against other currencies. With a strong U.S. dollar, our agricultural products are more expensive and sales are reduced.
- U.S. domestic agricultural policies result in world market prices of some commodities being inflated, thus encouraging production and export by other countries. This reduces U.S. sales abroad. If the U.S. did not support prices above free-market price levels, competing countries might not be able to profitably produce these commodities. Soybeans are a good example of this relationship.
- Since 1980, total world agricultural trade has declined due to reduced economic growth worldwide and increased indebtedness of many LDCs. A December 1984 USDA report estimated that the debt problem alone has led to a nearly 20 percent decline in potential U.S. export sales to developing countries.
- The European Community is producing certain commodities in excess of internal demand, and the surplus, which is exported, is competing with U.S. exports in other countries.
- Due to the Nixon and Carter embargoes on agricultural products, many countries view the U.S. as an un-

reliable trading partner. Producers who filled the gap during the embargoes still supply a large part of that market. Some U.S. government measures, no matter how well-intended politically, have hurt our farm economy.

Other Reasons for Involvement

There are other important reasons why we are involved in international agricultural development. I have focused on the economic issue because international agricultural development is often criticized as being counterproductive to the U.S. farm economy; the evidence presented shows that this criticism is invalid.

Germplasm access. Our involvement in international agricultural development makes available formerly inaccessible crop and animal germplasm. Germplasm from other countries has played an important role in U.S. agriculture. None of our major commercial crops is indigenous to the United States and none of our breeds of livestock, except for some crosses, originated here.

Access to new germplasm can provide the key to improved cultivars and breeds. For example, in 1970, the southern corn leaf blight devastated U.S. corn producers, causing a 15 percent yield reduction. The gene in our new corn cultivars which now have resistance to the blight was obtained from Latin American maize lines, unavailable without our international germplasm exchange.

Recent work by Theodore Hymowitz and Richard L. Bernard (USDA) of the UIUC Agronomy Department developed three soybean lines free of the Kunitz trypsin inhibitor. The new lines were developed from germplasm collected in Korea. All presently available commercial soybean cultivars in the U.S. must be heated prior to feeding to swine and poultry to destroy this digestive enzyme inhibitor. Cultivars, which will be developed from the new lines, may eliminate or at least reduce an expensive part of processing soybeans for animal feed. This could result in an estimated savings of between \$100 million and \$500 million annually to U.S. soybean producers. The work which resulted in the new lines would not have been possible without funding supplied in part by the Illinois Soybean Program Operating Board and the Illinois Crop Improvement Association, nor would it have occurred without the exchange of germplasm afforded by our international involvement.

Realization of the magnificent potential for improved crop cultivars and animal breeds is precisely the reason Dean Campbell and Governor Thompson worked hard for the soybean, maize, and swine exchange agreement signed with the Chinese in March 1985. There are numerous potential benefits to Illinois and U.S. agriculture arising from this agreement.

World peace and stability. Another reason to support international agricultural development is increased

world peace and stability. There is, in my opinion, no clearer recipe for social and political turmoil than poverty and hunger in the LDCs. We will see governments change in many of these countries due to poverty and hunger. Some changes will come from the ballot box; others through less peaceful means. Only when people can feed their families and have a chance for a better life will we see more stability in developing countries and the world as a whole.

Humanitarian concern. This leads to the final and most important reason for international agricultural development, our humanitarian concern. We are all human beings and, as such, brothers and sisters to each other. Who among us cannot help but be touched by the horrible plight of the starving people in some areas of Africa, regardless of the form of government under which they live? The long-term solution to the predica-

ment of those people is to help them learn how to produce some of their food and earn enough to purchase the rest. The security afforded by a life without poverty and hunger is the basis for a life of hope and dignity.

I am convinced that there is not a more caring nor concerned group of people in the U.S. than our farmers. Once they understand the current situation, they will respond in a positive manner. It is only good and right that we help. The wonderful part of international agricultural development is that in helping those less fortunate we also help ourselves through increases in world peace and stability, additional exports of U.S. agricultural products, and increased access to the world's germplasm. That is truly Mutual Aid.

—J. J. Nicholaides III

NICHOLAIDES' NOTES

Beginning this month, Earl D. Kellogg, our Associate Director, is taking a leave of absence for one year to serve as Associate Executive Director of the Consortium for International Development (CID), based in Tucson, Arizona. Dr. Kellogg is well known for his outstanding leadership and service to the University and the community. His contributions to the success of UIUC's Office of International Agriculture are many and substantial. It goes without saying that CID's gain is Illinois' loss.

We wish Earl, Jan, and their family a productive and happy year and look forward to their return.

—J. J. Nicholaides III

INTERNATIONAL ACTIVITIES

The Illinois Cooperative Coordinating Committee, which represents all cooperatives in Illinois, recently awarded **John B. Claar**, Office of International Agriculture, their "Cooperative Friend Award for 1985." In making the award, the Committee noted that Dr. Claar was a charter member of the group and facilitated recognition programs throughout the state. The award was presented by Governor Thompson.

Three UIUC faculty members were named to offices in the International Water Resources Association. **Sam H. Johnson**, Agricultural Economics, was named treasurer, **W. H. C. Maxwell**, Civil Engineering, was named editor-in-chief of *Water International* and elected a fellow

of the association, and **Glenn E. Stout**, Water Resources Center, was elected secretary general.

Robert M. Skirvin, Horticulture, is on sabbatical leave in the Department of Scientific and Industrial Research (DSIR), Christchurch, New Zealand, until May 1986. He is studying the genetics of a unique, tissue culture-derived thornless blackberry.

Roy K. Simons, Horticulture, presented a paper entitled "Floral Tube and Style Abscission in *Prunus*" at the Fifth International Symposium on Growth Regulators in Fruit Production, Rimini, Italy, September 2 to 6.

Edwin C. Hahn, Veterinary Pathobiology, was an invited participant to the EMBO Workshop on Parvoviruses, Grangeneuve, Switzerland, September 16 to 19. He presented a poster session entitled "Contribution of Aleutian Disease Virus to the Induction of Anti-DNA Antibody in Mink." Dr. Hahn also visited the Institute for Medical Virology at the University of Heidelberg, Germany, where he presented a seminar on cellular immunity against pseudorabies and initiated collaborative research on the virulence of deletion mutants of herpesvirus.

The keynote address at the NATO Advanced Study Institute on Cyst Nematodes, Martina Franca, Italy, September 21 to October 3, was delivered by **Gregory R. Noel**, Plant Pathology/USDA. Also attending from UIUC was **Barry J. Jacobsen**, Plant Pathology, who lectured on integrated management programs for soybean cyst nematodes and on extension education programs in soybean cyst nematode control.

From September 29 to October 5, **Mark J. Wetzel**, Section of Faunistic Surveys and Insect Identification, Illinois Natural History Survey, participated in the Third International Symposium on Aquatic Oligochaeta, Hamburg, Germany. During the meeting Mr. Wetzel chaired discussions on bibliographic retrieval systems and a directory of international oligochaetologists.

Peter B. Bayley, Section of Aquatic Biology, Illinois Natural History Survey, presented an invited paper on comparative fisheries at a UNESCO-sponsored symposium on comparative ecology of aquatic environments, September 30 to October 4, Nairobi, Kenya. Dr. Bayley's trip was supported by a National Science Foundation travel grant.

Attending the International Conference of the American Association of Textile Chemists and Colorists, Montreal, Canada, October 6 to 10, was **Mastura Raheel**, Textiles, Apparel, and Interior Design.

Richard E. Dierks, Dean of the College of Veterinary Medicine, was in Germany and Austria from October 6 to 18 as a consultant for the U.S. Surgeon General and the U.S. Army Veterinary Corps.

At the Seventh International Symposium on Atherosclerosis, Melbourne, Australia, October 6 to 10, **Ross P. Holmes** and **Fred A. Kummerow**, Food Science, presented two poster sessions. As part of this trip, Dr. Kummerow also attended symposia in Australia and Switzerland; presented a seminar at Unilever Co., Bombay, India; and met with researchers at the University of Paris Medical School.

Steven T. Sonka, Agricultural Economics, traveled in Japan as part of a U.S.-Japan agricultural trade mission, October 19 to November 2, sponsored by the Chicago Council on Foreign Relations.

Paul G. Risser, Chief of the Illinois Natural History Survey, presented a paper on biological data and geographic information systems at the International Conference on the Global Environment, Venice, Italy, October 21 to 25.

Jean M. Due, Agricultural Economics, lectured at the Indian Institute of Public Administration and the Indian Council of Social Science Research, both in New Delhi, during a trip to India from October 25 to November 16.

At the invitation of the Indian Society of Agricultural Engineering (ISAE), **Ralph C. Hay**, professor emeritus in Agricultural Engineering, attended the twenty-fifth anniversary meeting of the society, held in Bhopal, India, October 28 to 30. Professor Hay is a lifetime mem-

ber of ISAE. He also visited agricultural engineering departments in Jabalpur, Kharagpur, Allahabad, and Pantnagar. At Pantnagar Prof. Hay participated in the twenty-fifth anniversary of the opening of G. B. Pant University of Agriculture and Technology.

Marvin P. Steinberg, Food Science, visited Taiwan to develop cooperative research on feed and fuel from feedlot biomass, October 27 to November 9. The trip was sponsored by the National Science Foundation in conjunction with the American Institute in Taiwan and the Taiwan National Science Council. Dr. Steinberg then traveled to Guangzhou, China, to present a poster paper entitled "Biogas for an Integrated Farm Energy System" at the Fourth International Symposium on Anaerobic Digestion. On the return trip he also visited the East-West Center, Honolulu, Hawaii. Donald L. Day, Agricultural Engineering, is also a principal investigator on these projects.

Lun-Shin Wei, Food Science, traveled in China from November 2 to 13. Dr. Wei discussed soyfood research, gave seminars on soyfood processing activities in the U.S., and discussed a possible Memorandum of Understanding for research and training between UIUC and the Scientific Research Institute of Food and Fermentation Industries, Beijing.

Edward G. Perkins, Food Science, presented an invited paper on new instrumentation and chaired a session at the World Conference on Emerging Technologies in the Fats and Oil Industry, Cannes, France, in early November. Dr. Perkins also visited the INRA laboratory at Dijon and the ITERG laboratory in Paris.

With Marshal Brinkman of the University of Wisconsin and Don Schuchel of Quaker Oats, **Charles M. Brown**, Agronomy, participated in a review of cooperative oat nurseries in Brazil and Argentina from November 2 to 25. Many Illinois oat lines are being evaluated in these nurseries, providing valuable information about disease and insect resistance.

John W. Santas, Office of International Agriculture, was in Pakistan during November to meet with the nominees for training in 1986 from the Northwest Frontier Province Agricultural University, Peshawar. The training will be conducted as part of a USAID-sponsored institution building project to the University of Illinois named TIPAN (Transformation and Integration of the Provincial Agricultural Network). Enroute, Dr. Santas visited the Asian Institute of Technology (AIT), Bangkok, Thailand, to discuss the possibilities of short-term training for TIPAN participants at AIT.

Emerson D. Nafziger, Agronomy, was in Toronto, Canada, November 12 and 13, to participate in a seminar

on intensive cereal management sponsored by Union Carbide Company.

Frederick C. Fliegel, Agricultural Economics at UIUC, and **Howard H. Olson**, Director of International Agriculture at Southern Illinois University-Carbondale, consulted on program and curriculum development at the Northwest Frontier Province Agricultural University, Peshawar, Pakistan. From November 9 to December 3 Dr. Fliegel met with faculty in rural social sciences, and from November 25 to December 17 Dr. Olson met with faculty in animal husbandry.

The new Research Extension Liaison Officer on the Zambia Agricultural Research and Extension (ZAMARE) project is **Dennis Thompson**. Mr. Thompson, who is replacing **Ronald G. Dedert**, will spend four weeks in Zambia in November and December. In mid-January he will return to Zambia with his family for a resident assignment at Kabwe.

Sponsored by Shur Gain Division of Canada Packers, **Michael F. Hutjens**, Animal Sciences, presented six seminars in Ontario, Canada, on phase feeding for optimum milk production and profit, November 18 to 21.

Kathleen Cloud, International Agriculture, spoke on women's roles in world food systems at the Annual International Symposium of the Massachusetts League of Women Voters, Boston, November 21 and 22. She also participated in a U.S. Agency for International Development (USAID) workshop to evaluate USAID's implementation of the Percy Amendment (women in development amendment) to the Foreign Assistance Act, Washington, D.C., November 24 and 25.

VISITING RESEARCHERS

Jose I. Cubero, professor of genetics at the University of Cordoba, and **Teresa Moreno**, Department of Agriculture, Cordoba, Spain, arrived at UIUC in November to work for one year in the laboratory of Johannes M. J. deWet, Agronomy. They will be working on genetic transformations in maize and can be contacted in care of Dr. deWet at AW-115 Turner Hall, 333-9458

The Rockefeller Foundation has awarded **Seong-Mo Kang**, Department of Horticulture, Gyeongsang National University, Chinju, Korea, a Biotechnology Career Fellowship to study at UIUC with John S. Titus, Horticulture. Dr. Kang, who received his Ph.D. from UIUC in 1979, will conduct research on the manipulation of the nitrogen economy of plants by modifying the senescence process. The first of his three visits to campus will be from December 1, 1985, to March 1, 1986. Biotech-

nology Career Fellowships, a new program with Rockefeller Foundation, are designed to bring faculty members of universities in developing countries to laboratories in the U.S.

Hamid Mehravaran, University of Urmia, Iran, is investigating the interaction of mycorrhizal fungi and soybean plants as part of his sabbatical research in the laboratory of Jack D. Paxton, Plant Pathology. Professor Mehravaran arrived at UIUC in October for a one year visit.

Jorge Teivelis Filho, from Brazil, is a visiting research associate in equine medicine and surgery with Gordon J. Baker, Veterinary Clinical Medicine, until April 1986.

SEMINAR

December 6 Trends and Careers in the U.S. Agency for International Development — John A. Becker, Foreign Service Officer.

4:00 p.m., Levis Faculty Center Reading Room, 919 West Illinois Street, Urbana.

*International Colloquium Seminar

VISITORS RECENTLY ON CAMPUS

Santiago Rodriguez and **Manuel Toro**, National Foundation for Agricultural Research, Maracai, Venezuela, were on campus October 7 and 8 to renew a UIUC-Venezuela project on hemoparasitic diseases of cattle. They met with Miodrag Ristic and Sonia Montenegro-James, Veterinary Pathobiology and members of the College of Veterinary Medicine's Hemotropic Diseases Research Group.

Pam Anderson, entomologist with the University of Nicaragua, discussed research on virus epidemiology and microbial insect control with Michael E. Irwin and Joseph V. Maddox, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey, October 31 to November 4.

On October 22, **J. J. Leguay**, Centre National de la Recherche Scientifique, Physiologie Cellulaire Vegetale, Gif sur Yvette, France, visited Plant Pathology and presented a lecture on auxin modulation of the expression of a major peptide in soybean cells grown in culture.

Maurice Fleming, USAID Project Officer for TIPAN (Transformation and Integration of the Provincial Agricultural Network/Pakistan) visited UIUC and SIUC from November 20 to 23. He met with senior project staff to discuss the early implementation phase of TIPAN.

Ian Sturgess, Director of the Agricultural Economics Unit, Cambridge University, England, visited Agricultural Economics on November 25 and presented a seminar entitled "U.S.-E.C. Trade Relations and Implications for EC Agricultural Policy."

SPANISH AND FRENCH LANGUAGE MATERIALS

Margo DeLey, Office of International Agriculture's Foreign Language Specialist, needs technical and administrative material in French or Spanish for use in foreign language training programs. The loan of items already in your files or material collected on upcoming trips would be appreciated. Call or write Dr. DeLey at 333-1977, 324 Coble Hall.

CALL FOR PAPERS

January 20, 1986, is the deadline for submission of abstracts for the symposium entitled "Agricultural Policy and African Food Security: Issues, Prospects, and Constraints, Towards the Year 2000." Sponsored by the Center for African Studies and the Office of International Agriculture, the symposium will be held at UIUC from April 24 to 26, 1986. The symposium is organized around five topics: access to food in Africa, policies of African governments, historical context, the role of external agencies, and the prospect of an agricultural revolution for Africa. Papers will be selected on the basis of abstracts. For submission guidelines call or write the Center for African Studies, 1208 West California Street, Room 101, Urbana, IL 61801, telephone (217) 333-6335.

FILM CENTER PROJECT

The University of Illinois Film Center has translated eighteen videotapes on agricultural topics into Spanish as part of an investigation on the need for translated U.S. agricultural training material. The videos are available for domestic and overseas use. For an explanation of the project or a list of items contact Calvin L. Owens, Director of the University of Illinois Film Center, 1325 South Oak Street, Champaign, 61820, telephone (217) 333-1360.



As some of our readers may have missed Dean Campbell's excellent article in the New York Times on September 25, 1985, we are reprinting it here.

Modern Farm Aid to Ease the Crisis by John R. Campbell

The Farm Aid concert held here Sunday is expected to raise tens of millions of dollars to help ease the plight of financially strapped farmers. That may sound like a considerable sum, but it will hardly solve the problems that beset American agriculture.

The agricultural recession already extends well beyond farmers, and economic figures alone do not tell the complete story of the distress in rural America. We face an extensive, complex crisis, but there are some small ways to begin to address it — chiefly by revising farm management.

Many farmers have looked to Washington for solutions to this crisis. There is a role for the Federal Government to play, but universities can take the lead by improving crop research and by developing computer technology.

In Thomas Jefferson's time, 90 percent of the population were farmers, and they generated nearly all of this country's economic output. Agriculture is still the largest business — about 20 percent of the gross national product — but less than 3 percent of the people live on farms.

As a result, many Americans think little about farming or its problems, and they take for granted the abundant and inexpensive food that the farm sector provides. But agriculture is critically important to the nation's economic health. The agriculture and food industries employ more than 22 million people (more than the steel and automobile industries combined) and are major exporters, contributing favorably to our balance of trade.

Nonetheless, farmers are facing the toughest economic times since the Great Depression. With many farmers in deep financial trouble, the ripple effect has also forced many rural banks and businesses to close. Since 1979, sales of farm machinery have plunged more than 50 percent; dealerships have closed at record rates; farm equipment manufacturers have laid off more than 140,000 workers; fertilizer and pesticide sales have declined, and agricultural processors and exporters are suffering serious slumps. Several large corporations that rely on the sector's business are teetering on the brink of bankruptcy.

Farmers are subject not only to the vicissitudes of the weather but to social, political and economic pressures beyond their control. These include inflation, the fluctuating value of the dollar and plummeting land values, which all are threatening the solvency of the family

farm. More than a quarter of all farmers are experiencing serious financial stress and many suffer physical and psychological problems as well.

Doubtless, there is a role to be played by the Federal Government — in crafting a sound agricultural policy and assuring that farmers continue to have access to affordable credit — but farmers must learn to survive in a highly competitive world economy. To do that they must master new and sophisticated management skills and make use of the latest technology. The University of Illinois offers financial counseling to distressed farmers, many of whom do not keep adequate records to assess their true financial condition. However, with training, they are capable of doing so, especially on computers.

Farmers also stand to gain from the computer's analytical power. The university plans to develop computer programs to aid the state's small- and medium-sized farmers. The university's goal is to create programs that

make use of the specialized skills of agriculture experts. One program, for instance, can identify problems in a field of soybeans and instantly recommend appropriate treatment. Others are in various stages of development. We expect these programs to produce real economic benefits.

We know, for example, that two-thirds of all corn is now sold at the lower third of the annual price range. If Illinois farmers had access to a computer that could prescribe the best marketing plan for their specific situation, they could reap sizable benefits. If they averaged only five cents more a bushel, it would be worth annually more than \$32 million.

I am not suggesting that there is an easy high-tech fix for all the problems afflicting farmers. But advances in agricultural research and new applications of computer technology can play a major role in assuring economic viability for our farmers.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit newsletter items. Contact the Office of International Agriculture to receive your own copy of this newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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INTERNATIONAL AGRICULTURE NEWSLETTER

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1986

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

SHARING KNOWLEDGE

The educational, research, extension, and international programs of the university are enriched through interactions with students and researchers from overseas. Exchange of ideas and viewpoints contributes significantly to improved cross-cultural understanding, a greater awareness of existing interdependencies among world societies, and a broader perspective on the global food and agricultural system. Now and in years to come, visiting researchers and students will provide valuable ties to overseas research institutes, universities, and government organizations.

Visiting researchers. Scientists from around the world come to the Urbana-Champaign campus to discuss and conduct research with faculty and staff members at UIUC and affiliated state and federal research organizations. Some come for a day or two, others stay for more than a year.

A count from the 1985 International Agriculture Newsletter showed that sixty-one scientists and researchers from twenty-six countries spent periods ranging from two weeks to sixteen months in the College of Agriculture and College of Veterinary Medicine. Nearly 25 percent of them stayed for five to six months, and almost half stayed for one year or more. While here, they learned laboratory and diagnostic techniques, taught and took courses, used the library and computer facilities, and explored new areas of science.

Areas of cooperative research pursued by these visiting scientists included the following:

AGRICULTURAL ECONOMICS: comparative marketing alternatives for Swedish and American hog and grain producers; farm management.

AGRICULTURAL ENGINEERING: agricultural machinery systems; research in methods and facilities used in animal and plant environmental engineering; use of by-products as feed.

AGRICULTURAL ENTOMOLOGY AND ECONOMIC ENTOMOLOGY SECTION OF THE ILLINOIS NATURAL HISTORY SURVEY: flight energy utilization of aphids; field crop pest management; insect vectors of pine wilt.

AGRONOMY: tropical soil management; response of divergent maize cultivars to water stress; soybean and corn leaf photosynthesis; molecular plant systematics and genetic engineering; maize genetics; soybean production and extension; crop production; soil chemistry; soils; water stress and leaf physiology; RuBP carboxylase activity determination; somatic hybridization and genetic manipulation in corn and soybeans; genetic transformations in maize; soil testing and plant analysis; porosity measurements in long-term tillage plots.

ANIMAL SCIENCES: livestock feeding and management; livestock judging; cattle reproduction; biosynthesis of milk; genetic evaluation of cows; immunophysiology; statistical methodology; swine breeding and management; multivariate analysis of discrete data in genetics; reproductive physiology; immunology and physiologic basis of behavior; ruminant nutrition in beef and dairy feeding; canine nutrition; nonconventional animal feeds.

FOOD SCIENCE: isolation, characterization, and chemistry of food flavors; influence of selenium on carcinogen metabolism and activation; membrane technology and milk processing; relationship of diet to thickness of the coronary artery; soybean processing for food uses; lactic acid fermentation using membrane bioreactors.

FOODS AND NUTRITION: administrative procedures and course development.

HORTICULTURE: research on cassava; manipulation of nitrogen economy of plants by modifying the senescence process.

PLANT PATHOLOGY: research on varieties and species of elm resistant to Dutch elm disease (with the Botany Section of the Illinois Natural History Survey); interaction of mycorrhizal fungi and soybean plants.

VETERINARY CLINICAL MEDICINE: theriogenology; equine medicine; equine surgery; medical imaging technology; mastitis research; reproductive studies.

VETERINARY PATHOBIOLOGY: application of radioimmunoassay in studies of animal production; study of *Escherichia coli*; immunology; public health and preventive medicine.

International student enrollment in agriculture and veterinary medicine. Tunetara Yamaou, a student from Japan, was a member of the first graduating class of the University of Illinois in 1873 and the first international student to graduate in agriculture. Since then, UIUC has maintained a tradition of educating students from abroad.

In the fall 1985 semester, there were 204 international graduate and undergraduate students from fifty-six countries enrolled in seventeen departments in the two colleges. Nearly 30 percent of the graduate students enrolled in agriculture and 20 percent of the graduate students in veterinary medicine are from foreign countries.

Enrollment in Agriculture and Veterinary Medicine

College and home location	Undergraduate	Graduate
Agriculture		
United States	2,206	460
International	11	171
Total	2,217	631
Veterinary Medicine		
United States	0	72
International	0	22
Total	0	94

International Graduate Student Enrollment in Agriculture and Veterinary Medicine

Unit	Number of international graduate students
Agricultural Economics	31
Animal Sciences	29
Agronomy	25
Food Science	21
Horticulture	17
Veterinary Pathobiology	12
Agricultural Engineering	8
Family and Consumer Economics	8
Nutritional Sciences	7
Plant Pathology	7
Veterinary Biosciences	7
Textiles, Apparel, and Interior Design	5
Human Development and Family Ecology	4
Forestry	4
Foods and Nutrition	3
Veterinary Clinical Medicine	3
Extension Education	2
Total	193

How do we compare with other units on campus? Agriculture and veterinary medicine host about 11 percent (204 individuals) of the degree-seeking international student population on campus.

Home Countries of International Students in Agriculture and Veterinary Medicine

Region and Country	Number	Region and Country	Number
Asia	113	Africa	25
Bangladesh	1	Egypt	1
China	41	Gambia	2
Hong Kong	1	Ivory Coast	3
Japan	2	Morocco	1
India	14	Nigeria	5
Indonesia	4	Rwanda	1
Korea	25	Somalia	2
Malaysia	7	Tanzania	1
Nepal	1	Tunisia	1
Pakistan	5	Zaire	1
Philippines	5	Zambia	6
Sri Lanka	4	Zimbabwe	1
Thailand	2		
Viet Nam	1	Europe	13
		England	1
Latin America and the Caribbean	33	France	1
Argentina	4	Germany	2
Barbados	1	Greece	3
Bolivia	1	Netherlands	1
Brazil	6	Poland	2
Colombia	2	Spain	1
Costa Rica	2	Switzerland	2
Dominican Rep.	1	Middle East	11
Ecuador	1	Iran	1
Guyana	1	Iraq	2
Honduras	2	Jordan	1
Jamaica	1	Lebanon	5
Mexico	4	Saudi Arabia	1
Panama	1	Turkey	1
Peru	1		
Venezuela	5	North America	9
		Canada	9

International Student Enrollment at UIUC, Fall 1985

UIUC Campus Unit	Number of International Students		
	total	graduate	undergraduate
Liberal Arts and Sciences	621	537	84
Engineering	433	393	40
Commerce	256	229	27
Agriculture	182	171	11
Fine and Applied Arts	127	97	30
Education	119	108	11
Applied Life Sciences	36	32	4
Communications	20	20	0
Veterinary Medicine	22	22	0
Law	18	18	0
Aviation	1	1	0
Other units	54	51	3
Total	1,889	1,678	211

Looking at UIUC as a whole, there were 1,889 international students, comprising 5 percent of the university's total enrollment of 35,997 students. Most (89 percent) international students are studying at the graduate level.

NICHOLAIDES' NOTES

I am pleased to announce that Thomas A. McCowen, Assistant Director of the Office of International Agriculture, is now serving as Associate Director while Earl D. Kellogg is on leave of absence. In his new position, Mr. McCowen will provide even more administrative and logistical support for the ZAMARE (Zambia Agricultural Research and Extension) project. Tom will continue to serve as campus coordinator for both ZAMARE and TIPAN (Transformation and Integration of the Provincial Agricultural Network/Pakistan). As well, he will be responsible for Strengthening Grant reports and budget reports for USAID and other funding agencies.

The Office of International Agriculture welcomes Danny R. Erickson as the new International Agricultural Development Specialist. For many years, Danny worked for the International Soybean Program (INTSOY) as Assistant Agronomist. As International Agricultural Development Specialist he will provide logistical support to the ZAMARE project, continue to be active in the INTSOY program, and provide support to our other programs and projects.

Two individuals committed to international agricultural development work will be in Indonesia during 1986. Sam H. Johnson, Agricultural Economics, and Jane S. Johnson, INTERPAKS, are consulting for the

International Irrigation Management Institute (IIMI) in Jakarta. Both Sam and Jane have been integral members of our team since 1981 and they will be missed. We wish them a safe and productive year and look forward to their return. The Johnsons encourage colleagues who will be traveling in Indonesia to visit them. Their address is c/o IIMI, P.O. Box 435 KBY, Jakarta, Indonesia.

D. E. (Gene) Alexander, Agronomy, pointed out an error in my article entitled "Mutual Aid" in the December newsletter. He noted that, rather than southern corn leaf blight, I must have had the northern corn leaf blight model in mind. "The solution to the Southern leaf blight outbreak was simply to return to the use of normal cytoplasms and detassel seed parents in production fields." Resistance to the northern corn leaf blight has "been found in exotic material." I do appreciate receiving this information and would welcome corrections to anything else I write. Even though I took my information from a recent article in a respected journal, I should have checked the accuracy of the statement with some of our outstanding scientists.

It will be a very busy year and we are relying on increased support from our staff and faculty, especially for some of the technical agricultural economic information so ably provided by Earl Kellogg. Your support during these shifts is most appreciated. We are hopeful that we will continue to enjoy your trust and counsel.

INTERNATIONAL ACTIVITIES

Congratulations to **Daniel Gianola**, Animal Sciences, who recently was awarded a \$200,000 grant from the Bi-National Agricultural Research and Development (BARD) fund. The grant is for a research project to develop methods for genetic analysis of discrete traits of economic importance in U.S. and Israeli dairy cattle populations. Project co-investigators include **Rohan L. Fernando** and **Charles R. Henderson**, Animal Sciences, and J. Weller and R. Bar-Anan, Volcani Institute, Bet-Dagan, Israel.

William H. Shoemaker, Horticulture, participated in a symposium sponsored by the International Society for Horticultural Science on the timing of field production of vegetables. The symposium was held in Tampa, Florida, October 28 to November 1, 1985.

Ming Che Wu, graduate student in Animal Sciences, recently returned to campus after spending three months at the Domaine Experimental du Magneraud, France. He conducted studies on Chinese pigs and

crosses of Chinese and European breeds in an attempt to determine some of the reasons for the high prolificacy of the Chinese breeds. Institut National de la Recherche Agronomique and UIUC's College of Agriculture jointly sponsored his study program.

At the request of the Academy for Educational Development, Washington, D.C., INTERPAKS Director **John L. Woods** spent November 5 to 16 in Swaziland. He helped develop future directions for the Swaziland government's information and communications systems.

Marcos Kogan, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey, presented an invited paper on *Heliothis* in North, Central, and South America at the Biological Control of *Heliothis*: Increasing the Effectiveness of Natural Enemies Workshop, New Delhi, India, November 11 to 15, 1985. On the way to India, Dr. Kogan traveled to Israel to discuss a proposal with scientists at the University of Tel Aviv and the Volcani Institute on the effects of drought on the susceptibility of crop plants to insect attack.

John A. Becker, USAID Foreign Service Officer and Visiting Professor in the Office of International Agriculture, delivered a talk entitled "The Two Fronts on the War on Hunger: Famine and Poverty" at a dinner meeting of the Cosmopolitan Club, November 24, 1985. The theme of the meeting was the food crisis in Africa. Donations from the meeting were given to OXFAM.

Laurian J. Unnevehr, Agricultural Economics, participated in a conference given by the International Food Policy Research Institute, December 9 to 13, in Annapolis, Maryland. The conference was entitled "Seasonal Causes of Household Food Insecurity, Policy Implications and Research Needs."

The Canadian government asked **Barbara P. Klein**, Foods and Nutrition, to attend a symposium on microwave use in the food processing industry, December 3 to 5, 1985, in Montreal. Dr. Klein presented a lecture on effects of microwave heating and processing on food quality.

From January 3 to 23, **Donald L. Day**, Agricultural Engineering, will be in Kenya to meet with scientists at Nairobi University and Egerton College. They will discuss cooperative research on a USAID-funded project, "Microbial Conversion of Agricultural Wastes and By-Products into Fuels, Feed, and Fertilizer." Dr. Day will also visit scientists in Israel. **Marvin P. Steinberg**, Food Science, is a collaborator on this project.

Carroll E. Goering, Agricultural Engineering, will present two papers at the International Congress of Agricultural Engineering, Pretoria, South Africa, and discuss cooperative research at the University of Natal, Pietermaritzburg, in mid-January. On his trip over, Dr. Goering will also present a lecture at the University of West Berlin.

Sandra Brown and **Mark Scheffel**, Forestry, will sample logs from trees downed by a hurricane in 1979 to determine wood decomposition rates and the factors influencing the rates in Dominica, West Indies, January 11 to 14.

Selenium nutrition of lactating women is the topic of two invited papers that **Mary Frances Picciano**, Foods and Nutrition, will present at the International Workshop on Human Nutrition, Oaxaca, Mexico, January 15 to 20.

PROJECT NEWS

INTERPAKS (International Program for Agricultural Knowledge Systems). The external advisory committee met in Chicago with the INTERPAKS research team on January 3. Committee members are Vernon Ruttan, University of Minnesota; Lowell Hardin, Purdue University; Glenn Johnson, Michigan State University; Bryant Kearl, University of Wisconsin; and Ernest Smerdon, University of Texas at Austin. Wendell Morse, INTERPAKS project manager for USAID/Washington, also attended. The group reviewed the Malawi case study and discussed plans for future studies.

The INTERPAKS subproject on technology development and transfer systems in agriculture will conduct its second case study in Jamaica during January. Team members include **John A. Becker**, USAID Officer currently with International Agriculture; **Robert P. Bentz**, Cooperative Extension Service; **Frederick C. Fliegel**, Agricultural Economics; and **Carolyn Sands** and **Burton E. Swanson**, INTERPAKS.

ZAMARE (Zambia Agricultural Research and Extension Project). **Farrell Olsen**, professor of field and forage crops, Southern Illinois University at Carbondale (SIUC), will begin a two-year resident assignment as Adaptive Research Planning Team (ARPT) agronomist at the Kabwe Regional Research Station on January 13. He replaces **Robert E. Hudgens**, who is returning to SIUC.

VISITING RESEARCHER

Bogdan Debski, Warsaw Agricultural University, Poland, arrived at UIUC in mid-November to work with John A. Milner, Food Science. Dr. Debski will be here through September investigating forms of selenium in fluids and tissues. He can be reached at 333-4177.

VISITORS COMING TO CAMPUS

Participants in the **Illinois Agricultural Leadership Program** will visit UIUC from January 9 to 11 for a program on U.S. economic, agricultural, and international trade policy. Their program includes a greeting from John R. Campbell, Dean of the College of Agriculture, and presentations by Martin E. Weinstein, Political Science, on political and social environment of the Far East, and Peter Schran, East Asian and Pacific Studies Program, on the economic environment for trade in the Far East.

John Shields, Director of International Agricultural Programs, California State University, Fresno, will visit UIUC on January 16 to participate in the monthly meeting of TIPAN (Transformation and Integration of the Provincial Agricultural Network/Pakistan) working group. California State University, Fresno, will collaborate with UIUC and SIUC in various aspects of TIPAN implementation.

SEMINARS

February 5 The United Nations Development System; Opportunities for the University of Illinois — John L. Woods, Director of INTERPAKS.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

February 12 Advances in Amaranth Grain — Larry Walters, President, Nu-World Amaranth, Naperville, Illinois.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

February 19 Public Law 480 Assistance: Past and Future — John A. Becker, USAID Foreign Service Officer and Visiting Professor in the Office of International Agriculture.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

February 26 Research Extension Linkages in Zambia — Ronald G. Dedert, Research Extension Liaison Officer on the Zambia Agricultural Research and Extension (ZAMARE) project from 1983 to 1985.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

VISITORS RECENTLY ON CAMPUS

Asnake Sahlu, Financial Manager, Ethiopian Food Corporation, and **Belete Beyene**, Manager, FAFFA Foods Plant, Addis Ababa, Ethiopia, discussed plans for expanding soybean utilization work with Alvin I. Nelson, Sing-Wood Yeh, and Wilmot Wijeratne, Food Science, and Harold E. Kauffman, INTSOY, November 25 and 26.

Panya Hiranrusme, Dean, School of Agricultural Extension and Cooperatives, **Sint Punpinij**, Instructor of Agricultural Extension in Horticulture, and **Natee Khilibtong**, Instructor of Agricultural Extension in Soil

Science, Sukhothai Thammathirat Open University, Bangkok, Thailand, visited the College of Agriculture for the week of December 2, 1985. They viewed programs and discussed curriculum development with Sam H. Johnson, Kathryn A. Maybury, and Wesley D. Seitz, Agricultural Economics; Jane S. Johnson and John L. Woods, International Program for Agricultural Knowledge Systems; James F. Evans, Grear R. Kimmel, and Violet M. Malone, Agricultural Communications and Extension Education; Gary R. Varner, Champaign County Cooperative Extension Service; Earl B. Russell, Agricultural Education; Helen C. Peterson, Graduate College; and Daniel B. Meador and Barry A. Eisenberg, Horticulture.

Sundar Shanmugasundaram, soybean research coordinator at the Asian Vegetable Research and Development Center (AVRDC), Taiwan, discussed soybean research with Richard L. Bernard, Henry H. Hadley, Theodore Hymowitz, and Randall L. Nelson, Agronomy, and INTSOY staff, December 6 to 9, 1985.

Joran Kapulnik, a Fulbright Fellow at the University of California, Davis, from The Hebrew University, Jerusalem, Israel, met with Fred E. Below, D. Briskin, James E. Harper, John D. Hesketh, Morris G. Huck, and Lawrence E. Schrader, Agronomy, on December 9. They discussed physiological aspects of crop productivity.

On December 9 and 10, **Mohamed Elyamani**, a graduate student from Morocco at Iowa State University, visited Henryk Jedlinski and Cleora J. D'Arcy, Plant Pathology. They discussed research on barley yellow dwarf virus.

LANGUAGE CLASSES FOR AGRICULTURE

Call Margo De Ley at 333-1977 for information about these classes.

French for Agriculture and Rural Development is being offered for the spring semester. The class is for faculty, staff, and students with a basic knowledge of French who wish to maintain and improve their language skills. Beginning January 28, the class will meet on Tuesdays from 4:00 to 5:30 p.m.

Spanish 142, **Spanish for Agriculture and Related Fields III**, has openings for faculty and others who are interested in enrolling or auditing. The class will meet Monday through Thursday afternoons at 3:00 p.m. in room 214 Davenport Hall.

FULBRIGHT SEMINARS ON SOUTH AMERICA

January 31, 1986, is the application deadline for 1986 Fulbright Summer Seminars on South America Today. The Fulbright Commissions in Argentina, Brazil, Chile, Ecuador, and Peru, and the U.S. Information Agency (USIA) posts in Bolivia and Venezuela are sponsoring two 45-day seminars for U.S. professors of Latin American Studies. Seminar I participants will visit Argentina, Bolivia, Ecuador, and Venezuela; Seminar II participants will travel to Brazil, Chile, and Peru. Seminar dates are June 29 to August 13. For more information and application forms call or write the Council for International Exchange of Scholars, Suite 300, 11 Dupont Circle, N.W., Washington, D.C. 20036; telephone (202) 939-1257.

RESEARCH FUNDS FOR THE UNITED KINGDOM

March 1, 1986, is the application deadline for grants to study in the United Kingdom. Junior (assistant professor or below) faculty members are eligible for short-term grants of up to \$3,000 and doctoral students for full year grants of up to \$4,000. More information is available from the English-Speaking Union, attn. Diane M. Rigoni, 612 North Michigan Avenue, Room 513, Chicago, IL 60611; telephone (312) 642-1020.

CHICAGO COUNCIL ON FOREIGN RELATIONS

Awards of up to \$50.00 are available for UIUC faculty members who attend programs conducted in Chicago by the Chicago Council on Foreign Relations (CCFR). The fund was created by International Programs and Studies to encourage participation in the functions of CCFR. Travel grant applications are available from International Programs and Studies, 324 Coble Hall, 801 South Wright Street, Champaign, IL 61801; telephone (217) 333-6104.

1986 FARMING SYSTEMS SYMPOSIUM — CALL FOR PAPERS

May 5, 1986, is the deadline for submission of abstracts for paper and poster sessions at the 1986 Farming Systems Symposium. With the theme of "Farming Systems Research and Extension: Food and Feed," the symposium will be held from October 5 to 8, 1986, at Kansas State University, Manhattan. Abstracts should be sent to Dr. Cornelia Butler Flora, Department of Sociology, Waters Hall, Kansas State University, Manhattan, Kansas 66506, USA.

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University of Illinois at Urbana-Champaign

February 1986, No. 93

THE INTERPAKS RESEARCH PROJECT

At the present time, one major activity of the International Program for Agricultural Knowledge Systems (INTERPAKS) is a project to study the development, transfer, and utilization of new agricultural technology in national systems. Funded by the United States Agency for International Development (USAID), the project has three objectives: develop a functional model of a technology system, review and annotate the literature, and produce a series of case studies describing how national agricultural systems function. Because the model provides the framework for the case studies, it will be possible to compare data from several countries and thus increase understanding of the elements necessary for a well-functioning agricultural system.

Indicators for studying agricultural knowledge systems and a tentative model have been developed. Each indicator measures one aspect that seems to be important to an effective system. The indicators were grouped into four categories: agricultural policy; technology development; technology transfer; and technology utilization by farmers. For example, indicators were established to measure such things as the percentage of agricultural gross domestic product (AGDP) reinvested in agricultural research and extension, relative proportion of basic, applied, and adaptive research, ratio of extension agents to farm households, and so forth. In all, about forty such indicators are being field tested.

In each case study, data are gathered to provide the context for interpreting the indicators. Included is information on the geographic, economic, and historical context, governmental policies affecting agriculture, and institutional actors in the public and private sectors. For each institutional actor the case study documents the resources it commands, the activities it performs, the types and levels of outputs it produces, where these outputs go, and how they get there. Some of the resulting data are summarized in indicators and some are discussed in greater detail. In this way, the cases provide an integrative mechanism for combining descriptive and indicator data. Moving back and forth between two kinds of data and across several systems permits description of common patterns and better understanding of their significance.

First Case Study: Malawi. In August and September 1985, a six-person interdisciplinary team spent five weeks in Malawi collecting data for the first case study. Members of the team and areas of responsibility were Earl D. Kellogg and Kathleen Cloud, policy, Burton E. Swainson and C. James Kaiser, technology development, John B. Claar, technology transfer, and Andrew J. Sofranko, technology utilization. A draft of the case has been completed and, after revision, will be sent to Malawi for in-country review and feedback.

Malawi was chosen for the first study for several reasons. It is an African country that, although it shares the low per capita income and rapid population growth of its neighbors, has been able to feed itself and even export a surplus of maize. At independence twenty years ago, Malawi had very little infrastructure. Investments in human capital had been low; there were only thirty-three Malawians with college degrees, and many men were migrant workers abroad. In twenty years, with low levels of urbanization, the economy has reabsorbed most of the migrant workers. According to the World Bank, the economy has exhibited one of the fastest increases in per capita GDP of any low income country, 2.6 percent annually since 1960. Agriculture presently generates forty percent of GDP and has contributed the major share of increased production. Documenting the way in which technology development and transfer works in such a poor but efficient system will be a major contribution to the INTERPAKS project goals.

In choosing Malawi the project members also thought about the size of the country, the wealth of secondary data that existed, and access to the English-speaking bureaucracy.

The final consideration was that the government of Malawi was eager to have the study done. They felt that it would afford them a disinterested second opinion to compare with the studies of USAID and the World Bank. Because of the government's strong interest the team had excellent access to people and data and was able to travel throughout the country, meeting with farmer groups and extension agents as well as scientists, administrators, and bureaucrats.

Malawi's Agricultural Sectors. There are two agricultural sectors in Malawi: the smallholder sector, which produces eighty percent of the agricultural GDP, and the estate sector, which produces twenty percent. In both, the farmers are Malawian, not expatriates. The difference between the two sectors is not so much the size of the holdings as the crops the farmers are permitted to grow, their land tenure systems, and the fact that the estate sector is served by private input and output markets while the smallholder sector relies primarily on a government parastatal organization for input supply and marketing. Tobacco and tea are the major export crops. Maize, pulses, roots, tubers, and groundnuts are the major food crops. Estate crops are sold privately, usually on the world market. ADMARC, the government parastatal organization, purchases smallholder crops at prices high enough to encourage production.

While government research serves both sectors, extension presently serves only the smallholders. In 1978 the country was divided into eight agricultural development districts, which are the basic administrative units for agricultural development. These districts coordinate investments in infrastructure, such as roads and markets, as well as adaptive research, credit, and extension.

Findings. Conclusions are not yet available but much of what the INTERPAKS research team found confirmed the characteristics of a well-functioning system as predicted by the literature. The government of Malawi gave priority to agricultural development and established clear national development objectives: self-sufficiency in staple crops, increased agricultural exports, and increased rural income. Capable agricultural institutions were developed. Consistent financial and institutional support was given to the achievement of the objectives. Considering the constrained resources, both research and extension have received substantial investments. Approximately 0.72 percent of agricultural GDP is reinvested in research and 2.4 percent in extension. In Malawi, agricultural research is predominantly interdisciplinary and adaptive, utilizing technology developed by the international agricultural research centers.

All of the elements of the Malawian system — policy that is supportive of production, wise allocation of scarce resources, and efficient institutions — contribute to the effectiveness of the technology system. Future case studies, including the one currently being conducted in Jamaica, should provide a fuller understanding of these and other factors. The most important phase is yet to come: the comparative analysis across results from all cases.

INTERPAKS bibliography. As part of the case study project, a comprehensive literature search was performed. In August 1985, INTERPAKS published

volume 1 of **Annotated Bibliography on Development and Transfer of Agricultural Technology**, compiled by Jane S. Johnson. The bibliography lists citations from the past ten years that are concerned with technology development, transfer, and utilization in agriculture and the links between the various groups that deal with these functions.

INTERPAKS is an interdisciplinary educational and technical assistance program at the University of Illinois at Urbana-Champaign. Since INTERPAKS was formed in 1982 it has given a number of international courses in the organization and management of extension systems, performed substantial research on national agricultural systems, provided technical assistance services to overseas projects, and published several monographs.

For more information about the case studies or about INTERPAKS, or for a copy of the bibliography call or write INTERPAKS, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, Illinois 61801, USA; telephone (217) 333-5837.



Malawi was the site of the first case study.

NICHOLAIDES' NOTES

At this time, foremost in my thoughts is the \$92 million cut mandated by Congress from the President's request for the agriculture, nutrition, and forestry portion of USAID's FY'86 budget, which began on October 1, 1985. It appears that a good portion of the cuts will be borne by the Science and Technology Bureau (S&T) and will have a major effect on U.S. university programs funded by S&T. At UIUC we have two such programs, the International Soybean Program (INT-SOY), and the International Program for Agricultural Knowledge Systems (INTERPAKS). This budget cut will be compounded by the Gramm-Rudman deficit-reduction plan approved by Congress in the waning days of 1985. As you would expect, we are doing everything we can to protect our programs.

What I want to share with you, however, goes beyond individual programs. In the year of dramatically increased U.S. public awareness of the plight of the world's malnourished and starving people, it is inconceivable that Congress would reduce the food and agri-

culture portion of USAID's budget. How very sad that our Congress can do no better than this.

Foreign aid, which I prefer to call mutual aid, has never had a large constituency. Now, while commodity groups are incorrectly blaming mutual aid for the problems being experienced by the U.S. agricultural export sector, mutual aid for agriculture has even less public support. The result is a reduction in the type of programs that should be increased. I contend that international agriculture development is just as vital to our national security as armaments. I am hopeful that, in the future, Congress will realize the value of mutual aid and act accordingly.

In the North Carolina mountains where I have my roots, we have a saying that is particularly appropriate, "Rough weather makes hard timber." There is no doubt that we are in for some rough weather. Our challenge now is to make the best use of the hard timber that will follow.

—J. J. Nicholaides III

INTERNATIONAL ACTIVITIES

Gary L. Jackson, Veterinary Biosciences, was on sabbatical leave in England from July through December 1985 working with researchers in the Agricultural Food Research Council's Research Group on Photoperiodism and Reproduction, Department of Zoology, Bristol University. Dr. Jackson studied how animals use internal biological clocks to regulate their breeding season. He also lectured and visited laboratories at Cambridge and Edinburgh, Scotland.

Participating in the International Symposium on Agricultural Wastes, December 16 and 17, Chicago, Illinois, were **Clifford B. Fedler**, **Arthur J. Muehling**, **Donald G. Jede**, **Donald L. Day**, and **Ten Hong Chen**, Agricultural Engineering, **Ted L. Funk**, Cooperative Extension Service, Effingham, and **Warren D. Goetsch**, Cooperative Extension Service, Springfield.

Johannes M. J. deWet, Agronomy, was at the International Center for Research in the Semi-Arid Tropics (ICRISAT), Hyderabad, India, in January to compare cultivars of sorghum from Africa and India and trace their origins.

In January, **Thomas A. McCowen**, Office of International Agriculture, assisted the Northwest Frontier Province Agricultural University, Peshawar, Pakistan, in developing an organizational structure to support expanded program requirements.

Lowell D. Hill, Agricultural Economics, presented an invited paper entitled "Economic Determinants of Grain Storage in International Markets" at the International Conference of Agricultural Engineering, Pretoria, South Africa, in mid-January. While in South Africa Dr. Hill met with the Maize Board in Pretoria and the Corn Growers Association in Bothaville to discuss grain quality issues and compare U.S. and South African markets and marketing. He also spent three days at the University of the Orange Free State, Bloemfontein, working with Kobus Laubscher (M.S. 1976, UIUC) to develop cooperative research plans.

Roger D. Shanks, Animal Sciences, lectured on sire evaluation and progeny testing at the Multicooperator Dairy Improvement Program in Venezuela, January 17 to 27.

John J. Nicholaides, Office of International Agriculture, delivered a paper entitled "Mobilizing U.S. Universities in Support of Mutual Aid" at the BIFAD/AID regional seminar, New Mexico State University at Las Cruces, January 21 and 22.

"Recent Advances in Mechanisms of Resistance in Soybeans" was the title of the invited paper that **Marcos Kogan**, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey, presented at the Tenth Brazilian Congress of Entomology, Rio de Janeiro, January 26 to 31. Also participating was **Jenny Kogan**, Soybean Insect Research Information Center (SIRIC).

From February 9 to 20, **John R. Campbell**, Dean of the College of Agriculture, **John J. Nicholaides**, Office of International Agriculture, **Howard H. Olson**, Director of International Agriculture at Southern Illinois University at Carbondale (SIUC), **James Tweedy**, Associate Dean of Agriculture at SIUC, and **Morton Neufville**, Dean of the College of Agriculture at the University of Maryland, Eastern Shore (UMES), will be in Zambia. They are participating in an executive team visit to the Zambia Agricultural Research and Extension (ZAMARE) project, during which they will visit sites and personnel around the country. UIUC, SIUC, and UMES collaborate on ZAMARE. The executive team will then visit Nairobi, Kenya, to discuss future programs with U.S. Agency for International Development staff.

On the trip home, Dr. Nicholaides will meet with Food and Agriculture Organization (FAO) officers, the U.S. mission to FAO, and International Fund for Agricultural Development (IFAD) personnel in Rome, Italy, to develop collaborative agreements.

Working through the Zambia Agricultural Research and Extension (ZAMARE) project, **Barbara A. Yates**, Educational Policy Studies, and **Earl D. Kellogg**, Office of International Agriculture, recently sent a shipment of books and journals to the library of the University of Zambia. The shipment was coordinated by James B. Sinclair, Plant Pathology. For many years Dr. Sinclair has arranged for educational material to be donated to libraries in developing countries.

INTERNATIONAL VISITORS IN 1985

The Office of International Agriculture coordinated itineraries for sixtyfive international visitors from twenty-five countries in 1985. This total does not include the many international scientists who directly contacted faculty members in the College of Agriculture.

VISITING RESEARCHERS

Roma Bell, Head of the Department of Nutrition and Dietetics at the Western Australian Institute of Technology (WAIT), Bentley, Australia, will spend from February 15 to April 30 in the Department of Foods and Nutrition as part of her sabbatical leave. Dr. Bell will investigate computer based education programs for nutrition and dietetics and course structure and content for institutional catering.

Sponsored by the Food and Agriculture Organization (FAO), **Ish Kumar Sawhney** of the Indian Council of Agricultural Research arrived at UIUC in mid-January for a four month program in dairy engineering. He is working with Munir Cheryan, Food Science.

LANGUAGE CLASSES FOR AGRICULTURE

Call or write Margo De Ley, 324 Coble Hall, 801 South Wright Street, Champaign, Illinois 61820, (217) 333-1977, for information about these classes.

Spanish for Agriculture and Related Fields will be offered during intersession from May 27 to June 13 and is free for UIUC faculty, staff, and dependents. Participants from outside the university may also attend.

French for Agriculture and Rural Development is being offered for the spring semester. The class is for faculty, staff, and students with a basic knowledge of French who wish to maintain and improve their language skills. The class meets in room 422 Mumford Hall on Tuesday from 4:00 to 5:30 p.m.

TINKER FOUNDATION FIELD RESEARCH GRANTS

March 21, 1986, is the application deadline for 1986 Tinker Foundation Field Research Grants. All disciplines and topics relating to Spanish- and Portuguese-speaking Latin America, Spain, and Portugal are welcome from graduate students and junior faculty.

An informational meeting for prospective applicants will be held at the Center for Latin American and Caribbean Studies on Tuesday, February 11, 1986, at 3:00 p.m. For more information call or write the Center for Latin American and Caribbean Studies, 1208 West California Street, room 250, Urbana, IL 61801; telephone (217) 333-3182.

SEMINARS

These events are open to UIUC faculty, staff, and students and the general public. There is no admission charge.

February 5 The United Nations Development System: Opportunities for the University of Illinois — John L. Woods, Director of INTERPAKS.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

February 7 Understanding the United Nations Development System and Potential Job Opportunities — John L. Woods, Director of INTERPAKS.

4:00 p.m., Reading Room, Levis Faculty Center, 919 West Illinois Street, Urbana.

*International Colloquium Meeting

February 12 Advances in Amaranth Grain — Larry Walters, President, Nu-World Amaranth, Naperville, Illinois.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

February 19 Public Law 480 Assistance: Past and Future — John A. Becker, USAID Foreign Service Officer and Visiting Professor in the Office of International Agriculture.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

February 20 Women's Studies in India: The International Impact Berenice A. Carroll, Political Science.

12:00 noon, Friendship Lounge of the YMCA, 1001 South Wright Street, Champaign.

*Women in International Development Seminar

February 21 International Colloquium Meeting

4:00 p.m., Reading Room, Levis Faculty Center, 919 West Illinois Street, Urbana.

February 26 International Developments in Agricultural Law — Donald L. Uchtman, Agricultural Economics.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 3 The Impact of Donor Aid on African Women — Bonnie Keller, Women's Development Officer, Planning Division of the Ministry of Agriculture and Water Development, Government of Zambia.

8:00 p.m., 322 Illini Union, 1401 West Green Street, Urbana.

*Women in International Development Seminar

March 4 African Women's Work Burden: A Constraint to Development — Bonnie Keller, Women's Development Officer, Planning Division of the Ministry of Agriculture and Water Development, Government of Zambia.

12:00 noon, 329 Davenport Hall, 607 South Mathews Avenue, Urbana.

*Women in International Development Seminar

March 5 International Markets for U.S. Livestock — Stephen C. Schmidt, Agricultural Economics.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 12 Farming Household Studies in the Highland Philippines — B. Jean Peterson, Human Development and Family Ecology.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 14 International Colloquium Meeting

4:00 p.m., Reading Room, Levis Faculty Center, 919 West Illinois Street, Urbana.

March 19 India: After 30 Years — Ralph C. Hay, professor emeritus, Agricultural Engineering.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 21 International Colloquium Meeting

4:00 p.m., Reading Room, Levis Faculty Center, 919 West Illinois Street, Urbana.

VISITORS RECENTLY ON CAMPUS

Manuel Piña, Head of Training and Communications at the Centro Internacional de la Papa (CIP), Lima, Peru, discussed the methodology developed by the INTERPAKS knowledge systems research project with Burton E. Swanson, Vocational and Technical Education and INTERPAKS, and faculty in the Office of Agricultural Communications and Extension Education, January 7.

Robert O. Butler, Washington State University, Pullman, visited UIUC on January 8. He met with faculty in the Office of International Agriculture and the Office of Agricultural Communications and Extension Education to discuss plans for a workshop in Jordan in April.

Ronald D. Hennessey, International Institute of Tropical Agriculture (IITA), Cassava Outreach Project in Kinshasa, Zaire, was at UIUC on January 14 and 15 to talk about placing students from Zaire at UIUC for graduate

work in entomology. Dr. Hennessey met with Marcos Kogan, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey, Stanley Friedman, Entomology, and Harold E. Kauffman and John W. Santas, Office of International Agriculture.

Jacque Armand, Director of Research of the Institute Merieux, Lyon, France, visited with Miodrag Ristic, Veterinary Pathobiology, on January 16 and discussed the progress of joint research on the development of a malaria vaccine.

A team of Indian agricultural research administrators visited UIUC from January 23 to 25 as part of a tour of six U.S. land grant universities. Team members were: **Maharaj Singh**, Deputy Director General, Indian Council for Agricultural Research; **R. P. Choudhary**, Dean of Agriculture at G. B. Pant University of Agriculture and Technology, Pantnagar; and **B. S. Malik**, Dean of the Faculty of Veterinary Medicine, Jawaharlal Nehru Agricultural University, Jabalpur. While at UIUC they met with faculty and administrators in Agriculture and Veterinary Medicine to develop a new cooperative agenda between Indian and U.S. universities. The team was escorted by Floyd Williams, Senior Advisor for the India Program, Winrock International, and John G. Stovall, Board for International Food and Agriculture Development (BIFAD).

INTERPAKS COURSES IN 1986

The International Program for Agricultural Knowledge Systems is offering three courses in 1986 for personnel involved in agricultural extension and research programs. If you know of foreign students currently in the United States or people overseas who might be interested in attending these courses you can get more information by calling or writing John L. Woods, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, Illinois 61801, USA; telephone (217) 333-5831. The courses are:

Organization and Management of Agricultural Extension Services: A New Look at Knowledge Transfer, June 16 to July 17 and repeated September 15 to October 17; course coordinator, John B. Claar. This is the third year that this course has been offered for extension administrators and teachers of extension or administration. The course fee of US\$2,900 does not cover international travel or living expenses.

Training of Trainers for Agriculture and Rural Development, June 16 to July 11; course coordinator, Violet M. Malone. Offered for the first time, this course is aimed at people involved in training programs for agriculture extension and research, and teachers of extension education. The course fee of US\$2,500 does not cover international travel or living expenses.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit newsletter items. Contact the Office of International Agriculture to receive your own copy of this newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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HUMAN RESOURCE DEVELOPMENT THROUGH INTERNATIONAL PROJECTS

The Office of International Agriculture (OIA) assists with the education and training of students as part of our on-going agricultural development projects and programs. Through the Zambia Agricultural Research and Extension (ZAMARE) project, thirty-eight Zambians have been enrolled in degree programs in U.S. universities and two U.S. students have conducted dissertation research in Zambia.

The ZAMARE project assists the Government of Zambia in its efforts to improve the welfare of small-scale farmers and increase national food production through the development and adaptation of technology. Activities are designed to increase the effectiveness of the extension service and strengthen the agricultural research capacity of the Ministry of Agriculture and Water Development (MAWD).

One participant in this type of training and staff development is Charles Chabala, a graduate student in Agricultural Economics. His advisor is Jean M. Due. *The following is contributed to IAN by Mr. Chabala:*

I will start by thanking the ZAMARE project for acceding me an opportunity to pursue graduate studies at the University of Illinois. I started my graduate studies in the fall of 1984 and hope to finish by August 1986. Before coming to Urbana, I worked for the Zambian Ministry of Agriculture and Water Development as a counterpart farming systems economist to Dr. Alfred G. Harms. Dr. Harms, a faculty member in UIUC's Department of Agricultural Economics, was in Zambia from August 1982 to January 1985.

One great opportunity I have had during my studies is the access to unlimited literature on international agriculture. Apart from classroom work, I have participated in seminars and meetings, especially on farming systems research. My main area of interest is international agricultural development and particularly policies directed at improving agricultural productivity among small-scale farmers. This is a major concern of most developing countries.

In Zambia, for example, sixty percent of the country's maize production, the main starch staple crop, is grown

by small-scale farmers. Yet, until recently, very little attention was given to this group of farmers. When I go back I will work in a multidisciplinary farming systems research/extension (FSR/E) team. As an economist, my main responsibilities will include evaluating the economic feasibility of on-farm trials and conducting socio-economic studies to better understand the farming systems and the problems limiting agricultural productivity among small-scale and traditional farmers.

I have worked and made contact with several professors here at the University and in the United States from whom I have greatly enriched my knowledge and perceptions on issues related to agricultural development. I intend to maintain contact with them because I view this as a starting point in the exchange of ideas between our countries. This contact at a professional level is crucial for continued interaction, not only in the area of agriculture but also in other areas of human development. — Charles Chabala

One unique aspect of ZAMARE is the opportunity to send U.S. students to Zambia to conduct a portion of their dissertation research. They work on research problems identified by the Zambians as critical and also gain exposure to the international arena. Glen Hartman, a graduate student in Plant Pathology working with James B. Sinclair, recently spent nine months in Zambia. He was accompanied by his wife, Barbara Bair. *They have written the following:*

As a graduate student in plant pathology, I had the opportunity to conduct a portion of my doctoral research in Zambia from December 1984 to August 1985. My wife Barbara accompanied me and was able to get a job teaching English as a second language at the International School in Lusaka. We were given housing at the Mt. Makulu Agriculture Research Station, located about 25 km from the capital city of Lusaka. We blended into the small community that consisted of Zambians and other international people that lived at the station.

My work on the ZAMARE project involved studying a foliage disease of soybeans called red leaf blotch (*Pyrenochaeta glycines*). Soybeans are a relatively new crop in Zambia and at present there are about 12,000 hectares grown. Red leaf blotch occurs on about 25 percent of these hectares. The disease causes heavy blotching and premature defoliation, which can reduce yields by 50 percent. I was invited to do research on this destructive disease because of the loss in production. Red leaf blotch does not yet occur in the United States but if introduced has the potential to be very destructive.

My first objectives were to locate my field plots and plant them. My two plot sites were located away from the station within larger fields of commercial soybeans. The first site was 10 km away from the station. I was provided with the land but had to get local help to work on the plots. Our work included digging the ground by hoe, planting, harvesting, and threshing by hand. Fortunately, a Zambian co-worker who was employed by the government helped me hire the workers. When there was work to do, six high school students (two female and four male) were eager to help on weekends and during school breaks. This interaction enabled me to learn more about the Zambian youth.

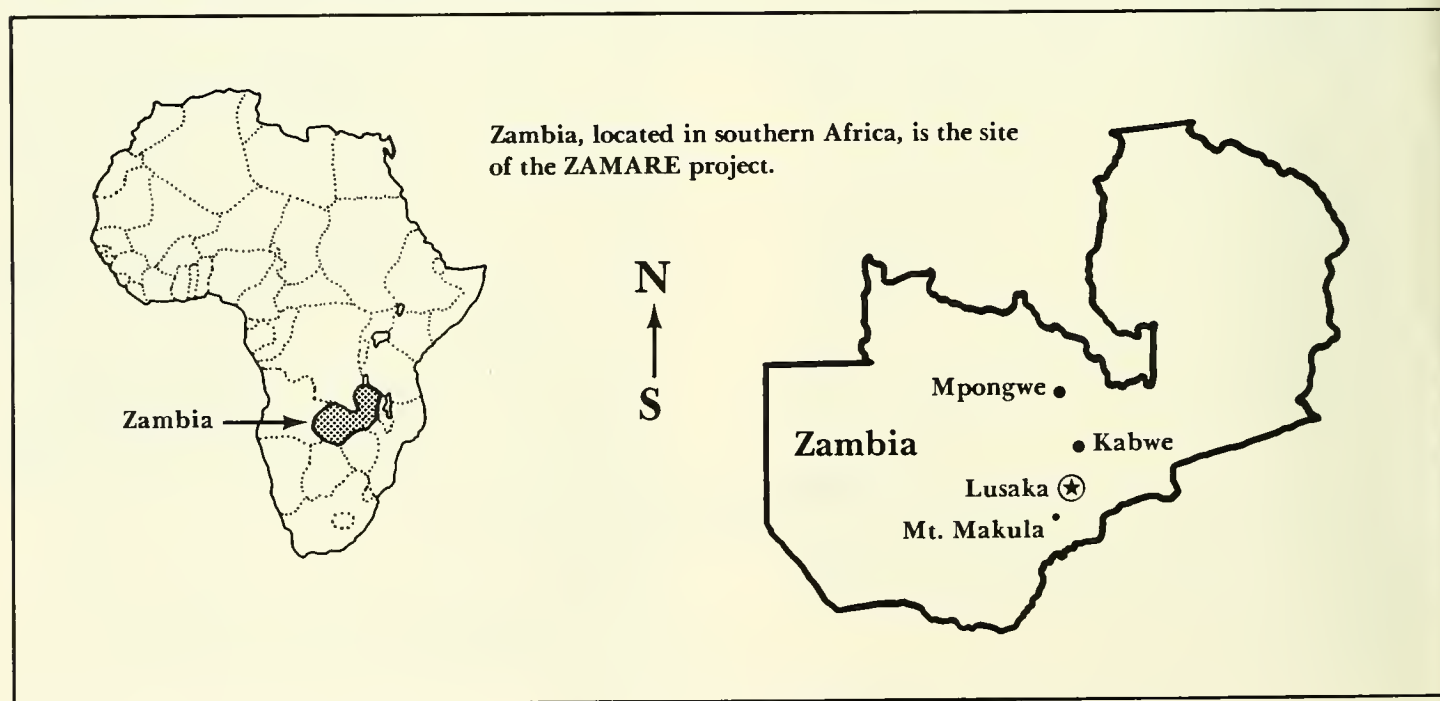
My other plot was located about 300 km away from the station on the Mpongwe Development Project. The Mpongwe Development Project is a large farm that was established in the mid-1970s by the Zambian government and several companies from countries in the European Economic Community. The 4,000 hectare farm, situated on cleared forest land, grows irrigated wheat in

the dry season (May to November) and soybeans during the wet season (December to April). Initially, red leaf blotch appeared as a minor problem. However, on the farm's older fields, yield reductions of fifty percent have recently occurred. On my experimental plots at Mpongwe, yields were increased by 20 percent with one fungicide spray and by 40 percent with two fungicide sprays over plots that were not sprayed.

Our African experience included several trips outside of Zambia to the neighboring countries of Malawi and Zimbabwe. In Zimbabwe, the most known tourist site that we visited was Victoria Falls, located on the border between Zambia and Zimbabwe. Our favorite trips were to the game reserves. Traveling by jeep or on horseback we viewed herds of wild animals and at night slept in lodges with thatched roofs. One night we were awakened by a herd of Kudu (a large antelope) feeding in front of the lodge. Malawi, a small country bordering Zambia to the east, has mountain ranges and the third largest fresh water lake in Africa. We enjoyed snorkeling, sailing, and eating Chambo, a delicious fish from Lake Malawi. As we traveled, people along the roadside were anxious for us to stop and buy the baskets, rugs, ebony wood sculptures, and other items that they had handcrafted.

We enjoyed the opportunity to work and live in Zambia. My research work has provided control recommendations to protect soybeans from red leaf blotch. Besides our work experiences, we liked meeting new people and seeing new places in southern Africa.

— Glen Hartman and Barbara Bair



INTERNATIONAL ACTIVITIES

Munir Cheryan, Food Science, served as a consultant in India for the United Nations Development Program (UNDP) from November 30, 1985, to January 17, 1986. Dr. Cheryan assisted the Indian Council of Agricultural Research (ICAR) in establishing a Center for Excellence in Dairy Processing at the National Dairy Research Institute, Karnal. He also delivered the keynote address at a national seminar on innovative methods in milk and food processing, organized by UNDP and ICAR at Karnal, January 2 and 3.

As part of this project, several scientists are receiving short term training in laboratories in the United States. Three have been assigned to Dr. Cheryan's laboratory as FAO Visiting Fellows: Dharam Pal, who was at UIUC from August to December 1985; Ish Kumar Sawhney, January to May 1986; and R. B. Rajor, May through August 1986.

In January, **Eugene E. Killion**, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey, was invited to the USDA-ARS research laboratory in Acarigua, Venezuela. He collaborated with the USDA team studying the Africanized honey bee.

John J. Nicholaides III, Office of International Agriculture, was recently appointed the contact officer at UIUC for the International Science and Education Council (ISEC).

On a recent trip to Korea and Japan, Illinois Governor James Thompson and **T. John Kim**, MUCIA (Midwest Universities Consortium for International Activities) Liaison Officer at UIUC, met with people who import corn and soybeans from Illinois. One contact was Kyung Won Lee, Director of the Korea-America Soybean Association. Dr. Lee received a Ph.D. in Agricultural Economics in 1973 from UIUC. Dr. Kim is a special advisor to Governor Thompson.

Mohammed Samy, graduate student in International Agricultural Education/INTERPAKS, was in Egypt for six weeks in January and February. Mr. Samy visited six provinces to collect data for his dissertation on agricultural research and extension links in Egypt.

Robert Raab recently returned to campus from CIMMYT (Centro Internacional de Mejoramiento de Maíz y Trigo), Mexico, to complete course work for a Ph.D. in International Agricultural Education. He is doing a joint degree program between CIMMYT and UIUC.

Gary V. Johnson, Agricultural Economics and Institute for Environmental Studies, was the leader of a TIPAN (Transformation and Integration of the Provincial Agricultural Network) micro-computer team at the Northwest Frontier Province Agricultural University (NWFP AU), Peshawar, Pakistan, during February. Other members of the team were **Azizan Zainul**, UIUC graduate student in Agricultural Economics, and **Anthony Kerber**, Southern Illinois University at Carbondale.

Mr. Kerber will serve as computer instructor and coordinator at NWFP AU until November 1986. **Inamul Haq**, Assistant Professor of Mathematics at NWFP AU who received training in micro-computers at UIUC from November 15, 1985, until early February, is working closely with the team and will lead the computer training at NWFP AU.

The Ontario Ministry of Agriculture, Canada, invited **Violet M. Malone**, Office of Agricultural Communications and Extension Education, to be the keynote speaker at the 1986 Provincial Conference on Volunteer Leadership, February 1, Toronto. Dr. Malone also conducted sessions on the importance of well-trained volunteers and on marketing programs to various audiences.

Donald A. Holt, Agricultural Experiment Station, presented the keynote address entitled "Artificial Intelligence: The New Frontier in Agriculture" at the International Conference on Computers in Agricultural Extension Programs, Orlando, Florida, February 5 and 6. **Duane E. Erickson**, Agricultural Economics, also attended the conference.

Miodrag Ristic, Veterinary Pathobiology, visited the Institute Merieux in Lyon, France, February 6 to 9, to discuss research programs on malaria vaccine development. Malaria vaccine research programs at UIUC are sponsored by USAID and the Institute Merieux.

Burton E. Swanson, International Agricultural Education/INTERPAKS, was in Washington, D.C., on February 11 and 12. He attended meetings of the Board for International Food and Agricultural Development (BIFAD) and the International Science and Education Council (ISEC), presented a seminar to staff members at the U.S. Agency for International Development (USAID), and met with representatives of the World Bank.

John A. Becker, USAID Foreign Service Officer and visiting professor in International Agriculture, presented

a seminar entitled "The New Internationalism in Agricultural Cooperation and Trade; Implications to U.S. Foreign Assistance Programming and the U.S. University Community" at Purdue University, Lafayette, Indiana, February 21. Mr. Becker will present the same topic at a seminar at Southern Illinois University at Carbondale on February 27.

People recently consulting with Jamaica Soy Products Industries, Ltd., St. Katherine, were **Joseph A. Jackobs**, Agronomy, January 20 to 24; **John C. Siemens**, Agricultural Engineering, February 23 to March 1; and **Michael E. Irwin**, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey, February 24 to 28.

"Soviet Agricultural Targets for 1986-1990 and Their Trade Implications" was the title of the paper presented by **Stephen C. Schmidt**, Agricultural Economics, at the USIA Seminar for Foreign Soviet Specialists. The seminar was held at UIUC from February 13 to 15.

H. Walker Kirby, Plant Pathology, and **Harold E. Kauffman**, INTSOY, lectured at the Workshop for Southern Africa Region on the Basics of Soybean Cultivation and Utilization, Harare, Zimbabwe, February 24 to March 7. The workshop was sponsored by the Food and Agriculture Organization (FAO), the Government of Zimbabwe, and the Southern Africa Development Coordination Conference (SADCC).

Dr. Kirby also traveled to Zambia to review research on soybean diseases and nematodes undertaken by the ZAMARE (Zambia Agricultural Research and Extension) project personnel.

Sponsored by USAID and the Consortium for International Crop Protection (CICP), a team of international researchers will meet at the Organization of Tropical Studies, La Selva, Costa Rica, from March 1 to 14. They are working on a project entitled "Managing Plant Virus/Mycoplasma Complexes on Maize and Bean Cropping Systems." UIUC participants include: **Michael E. Irwin** (team leader), **David J. Voegtlin**, and **William G. Ruesink**, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey; **L. Keith Hendrie**, Illinois State Water Survey; and **Harry Bottenberg**, graduate student in entomology.

George B. Swallow, Extension Advisor for Agriculture, Jo Daviess County, left in late February for a long-term assignment on the Zambia Agricultural Research and Extension (ZAMARE) project. He will be the research extension liaison officer at Kabwe Research Station, replacing Ronald G. Dedert.

Through sponsorship by Partners of the Americas, **John W. Santas**, Office of International Agriculture, will spend March 9 to 17 in the state of Sao Paulo, Brazil. One activity will be to discuss project plans under the Memorandum of Agreement that exists between the Faculty of Agriculture, University of Sao Paulo, Piracicaba, and UIUC's College of Agriculture. Dr. Santas will also meet with the Sao Paulo committee of the Illinois/Sao Paulo Partners of the Americas to plan activities for 1986 and 1987. During 1986 Dr. Santas is serving as president of the Illinois committee of the partnership.

Duane E. Erickson, Agricultural Economics, will conduct a study of the Caribbean Extension Project in Grenada from March 6 to 19, and will also visit St. Lucia.

Lun-Shin Wei, Food Science, will speak at the Asian Soybean Seminar, Chiang-Mai, Thailand, March 11 to 19. The seminar is sponsored by the Thai Ministry of Agriculture and Cooperatives.

Also presenting a paper at the seminar is **Harold E. Kauffman**, INTSOY. En route to Thailand Dr. Kauffman will discuss cooperative programs with researchers and administrators at the International Institute of Tropical Agriculture (IITA), Nigeria; Catholic Relief Services, Kenya; Ethiopian Food Corporation, Ethiopia; and U.S. Agency for International Development (USAID), Cooperative League of the USA (CLUSA), and Winrock International in India.

Violet M. Malone and **Raymond A. Woodis**, Office of Agricultural Communications and Extension Education, were invited by Jordan's Ministry of Agriculture to conduct a series of training programs on extension education and agricultural communications methods, March 26 to May 6. This workshop was arranged through a USAID-funded project being implemented by Washington State University (WSU). WSU has subcontracted INTERPAKS to conduct the workshop.

HUNGER RELIEF FUNDS

Congratulations to the Ad Hoc Committee for African Hunger Relief for raising more than \$8,500 during their benefit concert "Champaign-Urbana Sings for Africa." The money will be channeled through Oxfam America for work in Sudan, Mozambique, and Burkina Faso, and through the Comité Catholique Contre la Faim et Pour le Développement for work in Chad. The ad hoc committee was sponsored by the African Students Organization and the Center for African Studies.

VISITING RESEARCHERS

Won-Hyung Yoo, Department of Horticulture, Jung-Ang University, South Korea, conducted research with John S. Titus, Horticulture, on nitrogen recycling in the apple, January 25 to February 24.

Nabil Misk, Head of the Department of Surgery at Assuit University, Assuit, Egypt, arrived at UIUC's College of Veterinary Medicine in January for a ten-month visit. He is working with Howard L. Whitmore, Chief of Food Animal Medicine and Surgery, and Dale R. Nelson and Alan Brightman, Veterinary Clinical Medicine. Dr. Misk is studying the normal and abnormal function of the abomasum in cattle, and will receive advanced clinical and research training in ophthalmology. His visit is sponsored by the Mideast Peace Fellowship Program. Dr. Misk will present a seminar on livestock production in Egypt on April 23 (see seminar list for details).

Visiting the Department of Forestry from February to April is **David T. Bell**, Senior Lecturer in Plant Ecology, University of Western Australia, Nedlands, Australia. Dr. Bell was a faculty member in UIUC's Department of Forestry from 1971 to 1975.

Clive Levy, Ph.D. student in the Department of Crop Science, University of Zimbabwe, Harare, is spending six months in Plant Pathology as part of his doctoral program. He is studying soybean diseases, especially the host-parasite relationship of *Pyrenochaeta glycines*, in the laboratory of James B. Sinclair, and electron microscopy.

David Bourne, University of Queensland, Brisbane, is visiting Gary D. Koritz, Veterinary Bioscience, from December 1985 to May 1986. Dr. Bourne is working on pharmacokinetics, the mathematical analysis of drug data.

Working in Veterinary Biosciences for one year is **Gui-Rong Wang**, Department of Public Health, Tiangin Medical College, Tiangin, China. Dr. Wang is studying mycotoxins with William B. Buck and Steven P. Swanson.

Johannes Bottema, an agricultural engineering student at the Agricultural University, Wageningen, Netherlands, arrived at UIUC on February 23 for a three-month internship. He is conducting research with Nelson L. Buck, Agricultural Engineering, and Sidney L. Spahr, Animal Sciences, on dairy farm electronics.

Francisco Antonio Culianez-Macia, ETSIA at the Polytechnic University, Valencia, Spain, is spending 1986 in

the laboratory of Angus Hepburn, Agronomy. Dr. Culianez-Macia is conducting research on the molecular biology of agro-bacterium and plant transformation.

Geoffrey McInnes, Victoria, Australia, is visiting the Department of Animal Sciences for the spring semester. Mr. McInnes was awarded this visit for winning the Australian Angus Society judging contest.

NEW INTERNATIONAL STUDENTS

The College of Agriculture and the College of Veterinary Medicine welcome the following new foreign graduate students to UIUC:

AGRICULTURAL ECONOMICS

Kandeh Kolleh Yumkella, Sierra Leone, marketing and agricultural prices; **Susa Zhang**, China, international agricultural economics.

AGRONOMY

Ellen Wisman, Netherlands, cytogenetics; **Jiancheng Cao**, China, plant physiology.

EXTENSION EDUCATION

Lalith Kumar Hathurusinghe, Sri Lanka, agriculture; **Lucy Kehinde**, Nigeria, home economics; **Walter Mubiana**, Zambia, agriculture.

FAMILY AND CONSUMER ECONOMICS

Young Sook Chung, Korea, consumption economics; **Se-Jeong Yang**, Korea, consumption economics.

FOOD SCIENCE

Lih-Wen Ding, China, food processing engineering; **T. D. Swiriwardana**, Sri Lanka, soybean processing.

PLANT PATHOLOGY

Nimal Dissanyake, Sri Lanka, virus diseases of corn; **Mumtaz Ali Pathan**, Pakistan, seed pathology.

VETERINARY BIOSCIENCES

Hem Sapra, India, physiology.

VETERINARY CLINICAL MEDICINE

Augusto Barange, Spain, equine surgery and medicine.

SEMINARS

March 12 Food Production and Nutrition in Tanzania: Some Tentative Findings — Tim and Sue Rocke, Agricultural Economics.

12:00 noon, 1038 Foreign Languages Building.

*African Studies Sack Lunch Seminar

March 12 Farming Household Studies in the Highland Philippines — B. Jean Peterson, Human Development and Family Ecology.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 13 TIPAN and the NWFP Agricultural University: Progress and Opportunities Yet to be Captured — Dr. G. M. Khattak, Vice-Chancellor, Northwest Frontier Province Agricultural University, Peshawar, Pakistan.

1:30 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 19 India: After 30 Years — Ralph C. Hay, professor emeritus, Agricultural Engineering.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

March 20 Dowry Deaths in India: The Experience of an Intern in a Women's Support Group — Reena Shah, Journalism.

12:00 noon, Friendship Lounge, University YMCA, 1001 South Wright Street, Champaign.

*Women in International Development Seminar

March 21 International Colloquium Meeting

4:00 p.m., Reading Room, Levis Faculty Center, 919 West Illinois Street, Urbana.

April 2 What Does International Agriculture Mean to Illinois Farmers? — Willard Severns, International Agriculture Advisory Committee and Central Illinois Farmer.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

April 9 Technology Development and Transfer Systems in Agriculture: A Report from Jamaica — panel presentation by members of INTERPAKS case study team to Jamaica in January 1986.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

April 11 International Colloquium Meeting

4:00 p.m., Reading Room, Levis Faculty Center, 919 West Illinois Street, Urbana.

April 16 Research/Extension Linkages in Zambia — Ronald G. Dedert, Research Extension Liaison Officer

on the Zambian Agricultural Research and Extension (ZAMARE) Project from 1983 to 1985.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

April 17 The Family Migration Decision in Developing Countries — Peter Schaeffer, Urban and Regional Planning.

12:00 noon, Friendship Lounge, University YMCA, 1001 South Wright Street, Champaign.

*Women in International Development Seminar

April 23 Livestock Production in Egypt — Nabil Misk, visiting professor in Veterinary Medicine from Assuit University.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

April 25 International Colloquium Meeting

4:00 p.m., Reading Room, Levis Faculty Center, 919 West Illinois Street, Urbana.

April 30 The New Internationalism — John A. Becker, USAID Foreign Service Officer and Visiting Professor in the Office of International Agriculture.

4:00 p.m., 426 Mumford Hall.

*International Agriculture Seminar

VISITORS COMING TO CAMPUS

Vice Chancellor of the Northwest Frontier Province Agricultural University (NWFAU), **G. M. Khattak**, will visit UIUC and Southern Illinois University at Carbondale from March 7 to 15. NWFAU is the site of the TIPAN (Transformation and Integration of the Provincial Agricultural Network) project. Dr. Khattak will meet with campus administrators, faculty and staff in the College of Agriculture, and the seven NWFAU faculty members enrolled at UIUC for advanced degree training. Following his visit to UIUC, Dr. Khattak will travel to Denver, Colorado, to meet with representatives of Skidmore, Owings, and Merrill, the architectural firm designing the expansion of NWFAU under TIPAN. He will be accompanied by William N. Thompson and Thomas A. McCowen, Office of International Agriculture, and James O. Curtis, Agricultural Engineering.

Egon Bergmann, University of West Berlin, Germany, will discuss application of electronics to farm equipment with Carroll E. Goering and other faculty in Agricultural Engineering on March 10.

VISITOR RECENTLY ON CAMPUS

Brian Dibble, Director of the School of English at the Western Australian Institute of Technology (WAIT), met with James F. Evans, Agricultural Communications and Extension Education, on January 29. They discussed the exchange program between UIUC and WAIT.

MARK YOUR CALENDAR

"The Globalization of the U.S. Economy: Realities for the 1990's" is the title of the Eighteenth Annual Quad-Cities World Affairs Conference, April 4 and 5, 1986, Deere & Company Administrative Center, Moline, Illinois. This conference is open to the public. Advance registration is requested.

Additional Information is available from J. Terry Iversen, Office of Continuing Education in International Affairs, University of Illinois, 205 Arcade, 725 South Wright Street, Champaign, IL 61820; telephone (217) 333-1465.

INTERNATIONAL WATER CONFERENCE

The international conference on "Water Resources Needs and Planning in Drought Prone Areas" will be held in Khartoum, Sudan. December 6 to 13, 1986. The objective of the conference is to present the state of current knowledge in the field of water resource engineering. Emphasis will be given to application of the latest techniques for solving practical problems related to drought prone areas. The International Water Resources Association (IWRA) is a conference co-sponsor. For more information contact IWRA, 208 North Romine, Urbana, IL 61801.

INTERSESSION LANGUAGE CLASSES

The West European Studies Program has organized intensive foreign language classes for the intersession period of May 27 to June 13. Classes will meet from 9:00 a.m. to 1:00 p.m. Monday through Friday and are free to faculty, staff, and dependents. You can choose from: beginning French, intermediate French, beginning Spanish, intermediate Spanish, beginning Spanish for Agriculture, beginning German, intermediate German, and beginning Chinese. Contact Karl Schoeps or Shirley Jones at the West European Studies Program, 324 Coble Hall, 801 South Wright Street, Champaign, IL 61820; telephone (217) 333-1994, for registration instructions.

FELLOWSHIPS AND GRANTS

Title VI Funds

March 17, 1986, is the application deadline for 1986-1987 Title VI funds for area and language studies. For application details contact the appropriate center listed below:

Center for African Studies, 1208 West California Street, Urbana, IL 61801; telephone (217) 333-6335.

Center for Latin American and Caribbean Studies, 1208 West California Street, Urbana, IL 61801; telephone (217) 333-3182.

Marvin G. Weinbaum, Program in South and West Asian Studies, 361 Lincoln Hall, 702 South Wright Street, Urbana, IL 61801; telephone (217) 333-0796.

Title VII Bilingual Fellowships

March 15, 1986, is the application deadline for Title VII bilingual fellowships for the 1986-1987 academic year. For more information contact the Director, Office of Multicultural-Bilingual Education, 360 Education Building; telephone (217) 333-8287.

Summer Fellowship in Pittsburgh

March 31, 1986, is the application deadline for summer research fellowships in Latin American studies at the University of Pittsburgh. Grants of \$1,500 are designed to bring Latin American studies scholars to the University of Pittsburgh for one month of library research. Contact Ms. Martha Valle, Center for Latin American Studies, 4E04 Forbes Quadrangle, University of Pittsburgh, Pittsburgh, PA 15260, for application information.

African Studies

STUDENT PAPER COMPETITION. May 14 is the deadline for submission of papers for the annual paper prize contest. Two \$100 awards, one for a graduate student and one for an undergraduate student, will be made for the best African-related paper produced by a student during the 1985-1986 academic year. Instructors may nominate papers or students may submit them directly.

Application procedures are available from the Center for African Studies, 1208 West California Street, Urbana, IL 61801; telephone (217) 333-6335.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit newsletter items. Contact the Office of International Agriculture to receive your own copy of this newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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College of Agriculture
University of Illinois at Urbana-Champaign
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UNIVERSITY OF ILLINOIS
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IMPROVING AGRICULTURAL EDUCATION IN PAKISTAN

Sponsored by TIPAN (Transformation and Integration of the Provincial Agricultural Network), nineteen faculty members from the Northwest Frontier Province Agricultural University (NWFP AU), Peshawar, Pakistan, are in the United States for degree training. TIPAN is a major institutional development project at NWFP AU funded by the U.S. Agency for International Development (USAID). The project was awarded to the University of Illinois at Urbana-Champaign (UIUC) in November 1984. Southern Illinois University at Carbondale (SIUC) is collaborating closely with UIUC on TIPAN.

Seven of the NWFP AU faculty members are at UIUC. The others are enrolled at California Polytechnic State University, Mississippi State University, North Carolina State University, South Dakota State University, SIUC, Texas Technological University, Washington State University, University of Connecticut, University of Minnesota, and University of Wyoming.

The seven enrolled at UIUC are: Asmatullah Khan, Ph.D. candidate in agricultural education and extension, advised by Violet M. Malone, Andrew J. Sofranko, and Burton E. Swanson; Rafiullah Khan, Ph.D. candidate in food science, advised by Lun-Shin Wei; K. Bahadar Marwat, Ph.D. candidate in agronomy, advised by Emerson D. Nafziger; Mohammed Naeem, M.S. degree candidate in entomology, advised by Stanley Friedman; Mohammad Saeed, Ph.D. candidate in food science, advised by Munir Cheryan; Paigham Shah, Ph.D. candidate in agronomy, advised by Joseph A. Jackobs; and Fida Yousafzai, M.A. degree candidate in English as a second language, advised by Lawrence F. Bouton.

The following report was prepared for the International Agriculture Newsletter by Mr. Saeed, the first NWFP AU faculty member to come to UIUC for advanced degree work.

In May 1974, the Department of Food Technology was created in the Faculty of Agriculture, University of Peshawar. The status of the Faculty of Agriculture was raised to a full-fledged university in June 1981.

I was appointed as the first chairman of the department and remained in that position until I

came to UIUC for graduate work in August 1983. As well, I was a member of the Board of Studies in Agriculture, the Board of Faculty, and the Academic Council at the University of Peshawar and later at the NWFP Agricultural University. These academic bodies are responsible for setting the examination system, updating existing courses in various disciplines, and introducing new courses in the university. After the establishment of NWFP AU in 1981, I was elected to the highest policy and decision-making body of the university, the University Syndicate. I was also a member of the University Finance and Planning Committee.

I was actively engaged in teaching and research in the Department of Food Technology. I taught food technology courses to both undergraduate and graduate students, advised M.S. students, and published research papers on food preservation, particularly fruit and vegetable preservation. My work involved introducing new courses in food technology, updating existing courses, and establishing food processing facilities for teaching and research.

Agriculture in Pakistan. Pakistan is predominantly an agricultural country. One of the main problems in Pakistan, and NWFP in particular, is low agricultural productivity, both in yields per acre and animal production. In NWFP, more than seventy-five percent of the population is either directly dependent on agriculture or is employed in a business dependent on agriculture. Improvements in agricultural productivity would therefore improve the standard of life for a large and needy segment of the population.

The government is making every effort to improve agricultural productivity. It has established research organizations and educational institutions to investigate the factors responsible for low productivity and to devise ways and means to improve both animal and crop production.

The key factor, however, is to have qualified personnel to staff these organizations. With this objective in view, the NWFP provincial government recently upgraded the Faculty of Agriculture, University of Peshawar, into the NWFP Agricultural University. New facilities and departments have to be created and the existing facilities and departments improved to train the much needed personnel. It is a colossal job, one that needs active financial support from both the provincial and federal governments.

U.S. assistance. It was a good omen that at the time that the University was created, the United States of America offered economic and technical aid to the government and people of Pakistan. The provincial government could not think of a better way to utilize this aid than to spend it on improving the newly created NWFP AU.

TIPAN. NWFP AU, under the dynamic leadership of the Vice Chancellor, Dr. G. M. Khattak, selected UIUC and SIUC to help the new university. UIUC and SIUC, working in close collaboration with our administrators and faculty, designed the project now known as TIPAN. UIUC has long been recognized for its work in the development of agricultural institutions in developing countries. India is one example where two modern agricultural universities were established with the help of UIUC, especially the College of Agriculture.

Of particular interest at NWFP AU are staff training, improving the present teaching facilities, and establishing new and improved research facilities. Under the traditional system, agricultural research and agricultural extension are part of the provincial department of agriculture. Agricultural education is the role of the university and is funded by the federal government. There is little coordination between teaching, research, and extension.

Under TIPAN, teaching and research are being brought together and an outreach program is being established at the Agricultural University to interface with and complement the work of the provincial extension program. This will provide better coordination of the three wings. During its first year of operation, TIPAN has also been able to identify areas for training. The project has come up with a nicely planned program for training personnel, establishing research facilities, and improving library facilities.

Participant training. So far, fourteen people have been trained through specialized non-degree programs for periods ranging from three months to one year. Senior people in teaching and research have been brought over here and exposed to various research and educational institutions in the United States. Twenty-one others have been brought for M.S. and Ph.D. degree programs.

I am working toward my Ph.D. in Food Science, specializing in uses of oilseed meal after oil extraction. In Pakistan, there is a great potential for oilseed production. Almost eighty percent of the edible oil consumed in Pakistan is imported from Malaysia and the United States. Research on the production of sunflowers, soybeans, and other oilseeds has shown encouraging results. Better utilization of the meal after oil extraction would make these oilseeds more competitive and help bridge the gap between production and consumption of edible oil.

My first and foremost task after I go back to Pakistan will be to establish modern research and teaching facilities in the area of food science. There is very little post harvest technology in the country in general and in the province in particular. This results in wastage and discourages production. I plan to introduce post harvest technology so that more crops are processed in some form after harvest and not sold as raw agricultural produce.

The future. It is not that we don't know what the problems are, and it is not that we don't know how to solve them. In Pakistan, forty-two percent of our central government budget is spent on defense and another twenty-eight percent on interest on the public debt. That doesn't leave much for health, education, and agriculture.

There shouldn't be any poverty in Pakistan. Our climate ranges from temperate in the foothills of the Himalayas to tropical. We can grow everything — apples, bananas, dates, sugarcane, rice, maize, and wheat, to name a few crops. What we need is good leadership.

In the end, I sincerely hope that TIPAN will result in a strong relationship between the people of Pakistan and the United States. In helping to improve agricultural production, the people of the United States are helping the most needy segment of the population in a developing country to feed themselves better and not be so dependent on others. — *Mohammad Saeed*



Adapted from Rand McNally

NICHOLAIDES' NOTES

You may have noticed the absence of this column from last month's issue. I mailed the column to my office from O'Hare Airport on February 7, en route to Zambia with Dean Campbell for an executive visit to the Zambia Agricultural Research and Extension (ZAMARE) project. The packet has not yet arrived. We have learned that other people using the same mail box at O'Hare have experienced the same problem.

To switch to a more positive note, our executive visit team found that the ZAMARE project is in good order and highly regarded by our Zambian and USAID (United States Agency for International Development) colleagues. ZAMARE seeks to help the Zambian Ministry of Agriculture and Water Development (MAWD) strengthen its research and extension capabilities. We hope that, in continued cooperation with Southern Illinois University at Carbondale (SIUC) and University of Maryland, Eastern Shore (UMES), we will implement Phase II (1987-1992).

The ZAMARE team members, past and present, are to be congratulated for their solid performance in this project. Current team members, their home institutions, team assignments, and starting dates are: James F. Ragin, UMES, team leader, 1982; Mesfin Bezuneh, UIUC, farming systems economist, 1985; Val J. Eylands, UIUC, sunflower agronomist, 1984; Paul T. Gibson, SIUC, maize breeder, 1982; Jagmohan Joshi, UMES, soybean breeder, 1982; Farrel Olsen, SIUC, agronomist, 1986; George B. Swallow, UIUC, research extension liaison officer, 1986.

Past team members include Ronald G. Dedert, UIUC, research extension liaison officer, 1983-1985; Alfred G. Harms, UIUC, farming systems economist, 1982-1985; Robert E. Hudgens, SIUC, agronomist, 1982-1985; William Roath, USDA, sunflower agronomist, 1982-1984; and Seydou Sanogho, NifTAL, soil microbiologist, 1982-1985.

Four UIUC graduate students who worked on special studies and their academic advisors also made major contributions to ZAMARE: Lawrence Datnoff, 1983-1984, plant pathology, advised by James B. Sinclair; Glen L. Hartman, 1984-1985, plant pathology, advised by James B. Sinclair; Dennis Lawn, 1985-1986, plant pathology, advised by Gregory R. Noel; and Serigne N'Diaye, rural sociology, advised by Andrew J. Sofranko. We hope to continue these special studies and to include Zambians doing thesis research in-country.

The training component, coordinated by John W. Santas, is one of the greatest success stories of the project. Since 1982, eighteen Zambians have received degrees in U.S. institutions and returned to Zambia. Another twenty are currently in the U.S. pursuing degree training, and seventy others have participated in short courses held in the U.S. and other countries.

Students currently at UIUC include: Spenser Bloomfield, M.S. candidate in horticulture, advised by Walter E. Splittstoesser; Charles Chabala, M.S. candidate in agricultural economics, advised by Jean M. Due; Maurice C. Jangulo, M.S. candidate in horticulture, advised by John A. Juvik; Walter A. Mubiana, M.S. candidate in extension education, advised by Violet M. Malone; and Edward M. Sakufiwa, Ph.D. candidate in entomology, advised by Robert L. Metcalf.

Students who have completed their degree training are as follows: Agnes Kasaro, B.S. in agronomy in 1985, advised by Darrell A. Miller; Merinas Nyendwa, B.S. in agricultural economics in 1985, advised by James R. Roush; Enoch K. Sikapande, B.S. in extension education in 1985, advised by Violet M. Malone; George Simakando, B.S. in animal sciences in 1985, advised by Upson S. Garrigus; and Ben Zimba, B.S. in agricultural economics in 1985, advised by David Chicoine.

The contributions made by Thomas A. McCowen, Campus Coordinator of ZAMARE, and Earl D. Kellogg, who handled many aspects of ZAMARE prior to his leave of absence in December 1985, have added substantially to the success of the project.

The most credit, however, must be given to our Zambian colleagues and USAID collaborators who have done so much to ensure the success of this project. At the risk of omitting some key people, special thanks are due to: Mr. Nalumino Mundia, former Prime Minister and current Ambassador to the United States from Zambia, Mr. Ng'amdi Magande, Permanent Secretary, MAWD, Mr. Nicolas Mumba, Director of Agriculture, MAWD, Mr. J. B. Mutelo, Deputy Director for Research, MAWD, Mr. Russell Mulele, Deputy Director for Extension, MAWD, and their fine staff; and to Mr. John Patterson, Mission Director, USAID/Zambia, Mr. Willie Cook, Agricultural Development Officer, USAID/Zambia, and their fine staff.

— J. J. Nicholaides III

INTERNATIONAL ACTIVITIES

Christian M. Scherer, Agricultural Communications and Extension Education, presented a paper entitled "The Production of Effective Microcomputer User Materials" at the International Conference on Computers in Agricultural Extension Programs, Orlando, Florida, February 5 and 6. Also attending was **Barry J. Jacobsen**, Plant Pathology.

At the end of February, **Marshall D. McGlamery**, Agronomy, spent four days in Jamaica discussing cooperative research on soybean weeds with researchers from Jamaica Soy Products Industries, St. Katherine.

As a follow-up to a U.S. Presidential Mission on agricultural development, **John B. Claar**, International Agriculture, traveled to Caracas, Venezuela, in late February.

Gilbert R. Hollis, Animal Sciences, lectured on the effect of mycotoxins in swine feeding and on feed wastage at a short course entitled "The Breeding, Feeding, Management, and Product Marketing of Pigs," March 2 to 14, Edinburgh, Scotland. Dr. Hollis also participated in the British Society of Animal Production meetings, Scarborough, England, March 17 to 19.

Rod R. Greder, recent Ph.D. from Agronomy, left in March to spend one year at the Maize Research Institute, Zemun Polje, Yugoslavia. He will initiate a soybean breeding program at the institute, classify Yugoslavian maize populations, and computerize the plant breeding operations for all crops at the institute. His trip is sponsored by the International Research and Exchanges Board (IREX).

Consultants at the Northwest Frontier Province Agricultural University (NWFP AU), Peshawar, Pakistan, during April include **William L. George**, Office of Resident Instruction, who is serving as a specialist in the improvement of instruction, and **James O. Curtis**, Agricultural Engineering, who is serving as a specialist in livestock facility design. Their visits are part of the TIPAN (Transformation and Integration of the Provincial Agricultural Network) project.

Andrew J. Sofranko, Agricultural Economics, spent March 22 to April 2 in Zambia. He was supervising the research of **Serigne N'Diaye**, graduate student in rural sociology, who is collecting thesis data. The work is being done under the sponsorship of the Zambia Agricultural Research and Extension (ZAMARE) project.

At the request of USAID/Lesotho, **William N. Thompson**, Office of International Agriculture, is serving on a team to evaluate a farming systems project, April 2 to 29.

Folke Dovring, Agricultural Economics, will deliver an invited paper entitled "Cost of Agricultural Growth and Developments: A Cross-National Empirical Analysis with Focus on the USSR" at a conference on Soviet agriculture held at the Kennan Institute, Washington, D.C., April 3 and 4.

From April 10 to 13, **Stephen C. Schmidt**, Agricultural Economics, will participate in the Eastern Economic Association's annual meeting, Philadelphia, Pennsylvania. He will present a paper entitled "East European Agriculture: Goals and Performances in the Tenth Plan Period and Lessons for the Eleventh Plans."

"Preparing for the Marketplace: Educational Inroads in Computer-Aided Design" is the title of the invited paper that **Michael P. Sherman**, Textiles, Apparel, and Interior Design, will present in Toronto, Canada, April 16 to 19. He is participating in a conference on International Design: Quality and Creativity, sponsored by the Interior Design Educators Council.

John J. Nicholaides III, Office of International Agriculture, was recently appointed as the international associate editor to the Journal of Agronomic Education.

VISITORS COMING TO CAMPUS

A group of eighteen educators from seventeen countries will visit UIUC from April 1 to 4 as part of a U.S. tour sponsored by the United States Information Agency and the Institute of International Education. At UIUC, during a program coordinated by International Programs and Studies, the group will examine three aspects of higher education: the role of technology in education - Plato and supercomputers; role of land-grant colleges and universities; and optional appointments in teacher education. From the College of Agriculture, Eldon L. Johnson, INTERPAKS and UIUC Vice President Emeritus, will meet with the group.

TITLE VI FUNDS: W. EUROPEAN STUDIES

April 10, 1986, is the extended deadline for 1986-1987 Title VI funds for area and language studies in Western Europe. For application details contact Karl Schoeps or Shirley Jones, West European Studies Program, 324 Coble Hall, 801 South Wright Street, Champaign, IL 61820; telephone (217) 333-1994.

SEMINARS

These events are open to UIUC affiliates and the general public. There is no admission charge.

April 2 What Does International Agriculture Mean to Illinois Farmers? — Willard Severns, International Agriculture Advisory Committee and Central Illinois Farmer.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

April 9 Analysis of the Malawi Case Study: A Final Report presentation by members of INTERPAKS case study team. (note topic change)
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

April 11 International Colloquium Meeting
4:00 p.m., Reading Room, Levis Faculty Center,
919 West Illinois Street, Urbana.

April 16 Research/Extension Linkages in Zambia — Ronald G. Dedert, Research Extension Liaison Officer on the Zambia Agricultural Research and Extension (ZAMARE) Project from 1983 to 1985.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

April 22 The Development Challenge in Jamaica — John A. Becker, USAID Foreign Service Officer and Visiting Professor in International Agriculture.
12:00 noon, 207 Gregory Hall.
*Latin American Studies Brown Bag Seminar

April 23 Operation of Vendange: Preliminary Report on a Franco-Spanish Agricultural Foreign Worker Program — Margo De Ley, Women in International Development and Office of International Agriculture.
12:00 Noon, 219 Davenport Hall.
*Population Studies Group Brown Bag Seminar

April 23 Livestock Production in Egypt — Nabil Misk, visiting professor in Veterinary Medicine from Assuit University, Egypt.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

April 24 The Family Migration Decision in Developing Countries — Peter Schaeffer, Urban and Regional Planning.
12:00 noon, Friendship Lounge, University YMCA,
1001 South Wright Street, Champaign.
*Women in International Development Seminar

April 25 International Colloquium Meeting
4:00 p.m., Reading Room, Levis Faculty Center,
919 West Illinois Street, Urbana.

April 30 The New Internationalism — John A. Becker, USAID Foreign Service Officer and Visiting Professor in the Office of International Agriculture.
4:00 p.m., 426 Mumford Hall.
*International Agriculture Seminar

INTERNATIONAL AGRICULTURE ADVISORY COMMITTEE

The International Agriculture Advisory Committee will meet at UIUC on April 3. Committee members are: Richard Feltes, REFCO Research; William H. Fugate, farmer, Fairbury; Bruce L. Kirkpatrick, Abbott Laboratories, Long Grove; Lyle G. Reeser, East Peoria; Willard Severns, farmer, Moweaqua; James M. Spata, Nutra-Blends Inc., Cincinnati, Ohio; Wilbert N. Stevenson, farmer, Streator; and Richard A. Vogen, Illinois Department of Agriculture, Springfield.

WID STUDENT PAPER COMPETITION

May 15, 1986, is the deadline for submission of papers written by students on topics related to women in international development. One \$150 prize will be awarded by the Office of Women in International Development. For topics of past winning papers and further information about the competition contact the WID Office, 324 Coble Hall, 801 South Wright Street, Champaign, IL 61820; telephone (217) 333-1977.

INTERSESSION LANGUAGE CLASSES

The West European Studies Program has organized intensive foreign language classes for the intersession period of May 27 to June 13. Classes will meet from 9:00 a.m. to 1:00 p.m. Monday through Friday and are free to faculty, staff, and dependents. You can choose from: beginning French, intermediate French, beginning Spanish, intermediate Spanish, beginning Spanish for Agriculture, beginning German, intermediate German, and beginning Chinese. Contact Karl Schoeps or Shirley Jones at the West European Studies Program, 324 Coble Hall, 801 South Wright Street, Champaign, IL 61820; telephone (217) 333-1994, for registration instructions.

VISITORS RECENTLY ON CAMPUS

Meera Khan, Research Officer (Animal Husbandry), Veterinary Research Institute, Peshawar, Pakistan, spent March 10 and 11 visiting researchers in agriculture and veterinary medicine. Mr. Khan, a participant in the TIPAN project, is an M.S. student at Southern Illinois University at Carbondale.

On March 4, **Abdel-Latif A. Aboul-Ela**, Cultural Counselor from the Embassy of Egypt, Washington, D.C., met with graduate students supported by the Egyptian government. He also discussed possible collaboration between UIUC and Egyptian universities with Mahmood A. Khan, Barbara P. Klein, and Joseph Tobias, Foods and Nutrition.

Alister Sutherland, sociologist with the Adaptive Research Planning Team (ARPT) program, Zambia Ministry of Agriculture and Water Development, visited the College of Agriculture on March 6. He discussed the Zambia Agricultural Research and Extension (ZAMARE) project with faculty and staff, including Jean M. Due, Alfred G. Harms, and Andrew J. Sofranko, Agricultural Economics, and Thomas A. McCowen, John J. Nicholaides, and John W. Santas, Office of International Agriculture.

Clifton R. Wharton, Chancellor of the State University of New York system and Chairman of the Board of the Rockefeller Foundation, presented the keynote address at the Funk Awards banquet, March 13. His speech was entitled "Asian Development Revisited: Some Reflections."

Ten researchers with **Nippon Pet Food Co.**, Tokyo, Japan, discussed management and nutrition of exotic birds and pet food processing and nutrition with Julia Van Briggles and James E. Corbin, Animal Sciences, on March 14.

During a tour arranged by the African-American Institute, **Joseph Guifo Kayem**, Assistant Director, and **Michel Tchekandom**, Chief of Service for Inter-University Relations, National Institute of Food Science Technology (ENSIAAC), Ngaoundere, Cameroon, visited UIUC on March 19 and 20. Both are participants in the International Visitor Program of the United States Information Agency (USIA). During a schedule arranged by International Programs and Studies, they discussed food technology programs with Alvin I. Nelson, Food Science, Jean M. Due, Agricultural Economics, and Harold E. Kauffman and Thomas A. McCowen, International Agriculture.

Leroy D. Schickedanz, Skidmore, Owings & Merrill, Denver; **Herbert Portz** and **Meera Khan**, Southern Illinois University, Carbondale; **J. D. Garlich**, North Carolina State University (NCSU); and **Mushtaq Ahmed Mian**, NWFP Agricultural University and NCSU Ph.D. candidate in poultry science, visited UIUC on March 27. They discussed planning the crops and livestock teaching and experimental farm facilities at NWFP Agricultural University, Peshawar, Pakistan.

VISITING RESEARCHERS

Anna Brooks, Department of Environmental Biology, Australian National University, Canberra, arrived at UIUC in early January. She will work for one year with Archie R. Portis, USDA/Agronomy, using the gas exchange technique to study the possible relationships between the activation state of RuBisCo and photosynthate partitioning as affected by light intensity.

Denis Bergmann, Head, Economics Department, Institut National de la Recherche Agronomique, Paris, France, will be a visiting scholar in Agricultural Economics from early April until mid-May. Dr. Bergmann's interests include Common Market agriculture and its trading relationship with the United States. Dr. Bergmann will present several seminars during his visit. Check with the Department of Agricultural Economics, 304 Mumford Hall, 333-1810, for details.



AFRICAN FOOD SECURITY SYMPOSIUM

The Symposium entitled "Agricultural Policy and African Food Security: Issues, Prospects, and Constraints — Toward the Year 2000" will be held April 24 to 26, 1986, in room 210 (general lounge) of the Illini Union, 1401 West Green Street, Urbana. The Symposium is sponsored by the Center for African Studies and the Office of International Agriculture. Contact the Center for African Studies, 1208 West California Street, room 101, Urbana, 217-333-6335, for registration information.

Tentative Program

April 24

7:30 p.m., Session I

Compact for African Development: A Dialogue Robert Berg, Overseas Development Council, and Ambassador Nalumino Mundia, Republic of Zambia

9:00 p.m., Reception

April 25

9:00 a.m., Access to Food in Africa

Making Sense of Food Security Statistics: Pointers from Burkina — S. Haggblade, Syracuse University

Access to Food in Africa: Urban Consumers in Kinshasa, Zaire, with Projections of Food and Nutrition in Zaire and East Africa — G. Ames, University of Georgia

Food Distribution in Africa: A Question of Gender? — C. Robertson, Ohio State University

Access to Food in the Sahel — R. Thomas, Institut du Sahel

1:00 p.m., Session III, Policies of African Governments

Policies of West African Governments in Food Production for Self-Sufficiency — Bakayoko Adama, CIRES, Abidjan

Cooperative Agricultural Development in Lesotho: Self-Sufficiency or Self-Destruction? — B. Borris, University of Idaho

Food Self-Sufficiency and Regional Food Security: Illusion or Reality in Zimbabwe's Transition to Socialist Agriculture — K. Akwabi-Ameyaw, University of Florida

3:30 p.m., Session IV, Historical Context

Michael Watts, University of California at Berkeley, commentator

Agricultural Food Production 'Crisis' in Africa: A Historical Contextualization — W. C. Madzura and A. N. Mbabu, University of Missouri

Land Reform, Women, and Agricultural Productivity in Northern Ethiopia: An Historical Perspective — J. McCann, Boston University

Concentration without Privatization: Changing Patterns of Rural Land Control in Africa and their Implications for Agricultural Performance — S. Berry, Boston University

April 26

9:30 a.m., Session V, The Role of External Agencies

Financing Food Security: The Potential for Domestic Finance in Burkina — S. Haggblade, Syracuse University

Kenyan Food Security: The Role of USAID Vis-a-Vis Other Donors and the Government of Kenya — D. A. Smith and P. Weisel, USAID/Nairobi

1:00 p.m., Session VI, An Agricultural Revolution for Africa?

Farming Systems for Resource Poor Farmers: The Case of Cassava in Africa — C. S. Ajrotutu, University of California at Davis and H. C. Exumah, International Institute of Tropical Agriculture, Ibadan, Nigeria

Prospects for Food Security in Africa — G. Abalu, Ahmadu Bello University

Improved Technology Adoption and Food Security in Sub-Saharan Africa — Z. Olorunnipa, University of Illinois

4:00 p.m., Session VII, Round Table: Symposium Retrospective

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; Bonnie J. Irwin, editor. Faculty and departments are encouraged to submit newsletter items. Contact the Office of International Agriculture to receive your own copy of this newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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INTERNATIONAL AGRICULTURE NEWSLETTER

College of Agriculture and College of Veterinary Medicine, University of Illinois at Urbana-Champaign
113 Mumford Hall, 1301 W. Gregory Drive, Urbana, IL 61801, USA. Telephone (217) 333-6420; Telex 206957

May 1986, No. 96

EXPLODING THE MYTH THAT UIUC HELPS MARKET COMPETITORS

In the past few years, the U.S. farm economy has gone through some stressful times and the outlook for the near future is not rosy. This lamentable situation has provided an especially fertile environment for misunderstandings. The economic issues involved are varied and complex. Some individuals and organizations, in their attempts to protect U.S. farm interests, have spread falsehoods about the role U.S. universities have played in the decline of U.S. farm exports.

UIUC, because it is a world leader in soybean research and the base for the International Soybean Program (INTSOY), has been caught in the middle of the controversy. The misstatements have fueled a ground swell of opposition by some farmers and farm organizations to international agricultural activities, especially those connected with soybean production research.

This opposition has been detrimental not only to the university as a world class institution but also to U.S. efforts to conquer hunger and promote peace around the world. It created an environment in which \$100 million was cut from the 1986 budget for the U.S. Agency for International Development (USAID), resulting in an 18.8 percent budget cut for INTSOY. It precipitated a decision by USAID to no longer fund soybean production research in any developing country, thereby affecting millions of people who need protein and calories but lack the knowledge to grow and the money to buy soybeans. And it continues to fuel a plan within the House Appropriations Subcommittee for Foreign Operations to cut up to 50 percent (\$355 million) of the 1987 USAID agriculture budget, which would mean an immediate elimination of UIUC's INTSOY and INTERPAKS programs and Program Support Grant.

It is obvious that UIUC and other U.S. universities will suffer if the proposed 1987 budget cut occurs. But the biggest losers will be U.S. farmers and U.S. agribusiness. My article entitled "Mutual Aid" in the December 1985 International Agriculture Newsletter describes the major economic benefits of international agriculture development activities to U.S. producers and how these activities give us access to the world's germplasm. If you haven't read the article or would like another copy, please write me. The issue of international agricultural

development deserves to be discussed rationally with facts rather than with falsehoods.

It is time to set the record straight on what UIUC and INTSOY have and have not done in the international soybean arena. Summarized below is information from a letter dated January 24, 1986, from Dean John R. Campbell to Illinois Congressman Terry L. Bruce.

Myth: UIUC, through INTSOY, helped Brazil become a major competitor to the United States in soybean production.

Fact: INTSOY never had a program in Brazil. Along with 131 other countries, Brazil has participated in a cooperative international program coordinated by INTSOY to exchange, improve, and test soybean germplasm. Since 1973, Brazilian scientists contributed 535 breeding lines or cultivars to this program. In return, they received 259 lines (90 from the U.S. and 169 from other countries).

Brazil has a well-developed system of state, national, and private soybean research programs which develop cultivars to meet their local needs. As well, other countries, most notably Japan, have been actively involved in developing Brazil's soybean industry.

UIUC faculty members, including INTSOY affiliates, have visited Brazil for international meetings and discussion of cooperative research. Very few of these trips were paid for by USAID. Most concerned research on plant protection. International contact plays an important role in maintaining UIUC's reputation as a first-class educational, research, and service institution.

Myth: In 1984, financed by USAID, INTSOY spent up to \$20 million helping the soybean competition in South America.

Fact: INTSOY activities are directed toward less developed countries that are struggling to feed rapidly growing populations, not to competitors. In 1984, INTSOY received \$850,000 from USAID. Since its inception in 1973, INTSOY has received a total of \$6,456,404 from USAID.

Myth: INTSOY programs have adversely affected Illinois farmers.

Fact: INTSOY has helped Illinois farmers by

- bringing in new germplasm to increase and stabilize U.S. soybean productivity;
- conducting research on pests and diseases of soybeans that present a possible future threat to U.S. producers, and
- opening up new markets for U.S. soybeans through the introduction of soy products into less developed countries that have little or no experience with soybean usage.

INTSOY seeks to improve human nutrition around the world through the use of soybeans. We have recently signed a five-year collaborative agreement with USAID. The focus of the new research and development program is to process and use whole raw soybeans in the following ways: low-cost extrusion cooking to make weaning foods, breakfast foods, snacks, soy flour, and soups; low-cost farm or village oil extraction processes, which will give farmers and small commercial enterprises two products to market; low-cost processes to make high-quality soy beverages and dairy analog products, such as ice cream and yogurt; village and home level processing methods for home consumption; frozen, immature green soybeans; and simple processes for combining soybean residues with other ingredients to make animal feed.

If you are concerned about the proposed cut in the 1987 USAID agriculture budget and about the misstatements that are influencing policy makers, you might write or call the two Illinois congressmen who sit on the House Appropriations Subcommittee for Foreign Operations. They are: Representative John E. Porter (Republican, Tenth District), 1131 Longworth House Office Building, Washington, D.C. 20515, telephone 202-225-4835; and Representative Sidney R. Yates (Democrat, Ninth District), 2234 Rayburn House Office Building, Washington, D.C. 20515, telephone 202-225-2111.

Letters or calls to your congressional representative and senators could also be beneficial. In Urbana-Champaign, our representative is Terry L. Bruce (Democrat, Nineteenth District), 419 Cannon House Office Building, Washington, D.C. 20515, telephone 202-225-5001. Our senators from Illinois are: Senator Alan J. Dixon (Democrat), 316 Hart Senate Office Building, Washington, D.C. 20510, 202-224-2854; and Senator Paul Simon (Democrat), 462 Dirksen Senate Office Building, Washington, D.C. 20510, 202-224-2152.

If you are unable to find your congressional representative's address or telephone number, please call your local public library or my office (217-333-6421) and we will supply it for you.

Action is crucial. Thank you.

— John J. Nicholaides III

INTERNATIONAL ACTIVITIES

On April 6, 1986, **John R. Campbell**, Dean of the College of Agriculture, was presented with the Gamma Sigma Delta International Award for Distinguished Service to Agriculture. Dean Campbell, the first person from Illinois to receive this prestigious award, was cited for his many long-term contributions to agricultural education, research, and public service, both within the United States and abroad. Gamma Sigma Delta is the honor society of agriculture.

Michael Grossman, Animal Sciences, traveled to Israel and the Netherlands, March 22 to April 12. He spent two weeks in Israel discussing opportunities for cooperative research in dairy goats with scientists at the Hebrew University in Jerusalem and Rehovot, Volcani Institute at Bet Dagan, and Tel Aviv University, Tel Aviv. Dr. Grossman also attended a short course on mammalian growth held at the Agricultural University, Wageningen, Netherlands, April 7 to 12. The trip was financed, in part, by a travel grant from MUCIA, the Midwest Universities Consortium for International Activities.

Daniel Gianola, Animal Sciences, presented an invited paper at the International Symposium on Mixed Model Theory and Applications at Irsee, West Germany, and lectured at the University of Hohenheim at Stuttgart and the Technical University at Munich, April 4 to 14.

Eleven members of the College of Agriculture faculty are in Tokyo, Japan, during April and May participating in a corn quality research project. As part of the study, the team sampled corn as it was loaded onto boats in New Orleans and are sampling again when it is offloaded in Japan. Team members are: **Lowell D. Hill** (team leader), **Brian Cratz**, **Terrence J. Kuhn**, **Alan Tumblin**, and **Donald L. Uchtmann**, Agricultural Economics; **Marvin R. Paulsen** and **Gene C. Shove**, Agricultural Engineering; **Richard A. Weinzierl**, Agricultural Entomology; **William H. Creswell** and **R. Grear Kimmel**, Agricultural Communications and Extension Education; and **Barry J. Jacobsen**, Plant Pathology. The project is supported by the Illinois Corn Marketing Board and the National Corn Development Foundation.

John L. Woods, INTERPAKS, attended a workshop for agricultural communications and information scientists held at the Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia, from April 14 to 18. Participants discussed the establishment of networks in South America for agricultural communications, libraries, and extension.

Dr. Woods then traveled to New York City and Washington, D.C. At the Global Projects Division of the United Nations Development Program (UNDP) in New York, he discussed possible funding for three case studies that would be carried out in cooperation with the Centro Internacional de la Papa (CIP) in Peru. He also met with other officials at UNDP and UNICEF. In Washington, D.C., Dr. Woods presented a paper on program relevance and support services for overseas students in U.S. universities at a seminar on international education and training, April 23 and 24. The seminar was sponsored by the International Science and Education Council (ISEC) and BIFAD (Board for International Food and Agricultural Development). Following the ISEC workshop, Dr. Woods held a series of meetings at USAID, World Bank, and other organizations.

Thomas A. McCowen, Office of International Agriculture, is in Zambia from April 18 to May 6 to assist the ZAMARE (Zambia Agricultural Research and Extension) project develop a project identification document for Phase II.

Duane E. Erickson, Agricultural Economics, will spend the month of May at the Northwest Frontier Province Agricultural University, Peshawar, Pakistan. Dr. Erickson will serve as a consultant on production economics to TIPAN (Transformation and Integration of the Provincial Agricultural Network).

Demetres Briassoulis, visiting professor in Agricultural Engineering, will present a paper entitled "Design Considerations for Empty Steel Silos Under Wind Loading" at the Powder and Bulk Solids Conference and Exhibition, O'Hare Exhibition Center, Rosemont, Illinois, May 12 to 15. The event is sponsored by the International Powder Institute in collaboration with the Powder Advisory Centre, London, England.

Congratulations to **Sara U. Douglas**, Textiles, Apparel, and Interior Design, who recently won a Hewlett international research grant. For three months this summer, Dr. Douglas will be in Malaysia conducting research on the impact of U.S. trade policy on the textile and apparel industries in Malaysia and Singapore. Beginning in August, she will teach for ten months at the Mara Institute of Technology, Kuala Lumpur, under a MUCIA

(Midwest Universities Consortium for International Activities) institutional development project.

At the conference on International Marketing: Emerging Strategic Frontiers, Singapore, June 16 to 18, Dr. Douglas will present a paper entitled "Conjoint Analysis as a Method for the Study of Country-of-Origin as an Apparel Attribute." First author on the paper is **Cynthia A. Boeckman**, graduate student in Textiles, Apparel, and Interior Design. The conference is sponsored by the Global Marketing Division of the American Marketing Association and the National University of Singapore.

VISITORS COMING TO CAMPUS

Margaret Elaine Rose, veterinary parasitologist from the Houghton Poultry Research Station, Houghton, Huntingdon, Cambridgeshire, England, will visit UIUC from May 3 to 7. Sponsored by a Wellcome Visiting Professorship in the Basic Medical Sciences, her program at UIUC is being arranged by Kenneth S. Todd, Veterinary Pathobiology, 2615 Veterinary Medicine Basic Sciences Bldg., 333-4689. On May 5, Dr. Rose will present a seminar on her research (see seminar list on page x for details).

Marc Frankinet, research leader, Station de Phytotechnie, Gembloux, Belgium, will discuss soil management, soil fertility, crop rotation, integrated pest management, and experimental farm management with College of Agriculture faculty members on May 6. His schedule is being arranged by John W. Santas, 113 Mumford Hall, 333-3638.

International 4-H Youth Exchange (IFYE) program participants **Beat Wüthrich**, farm cooperative worker from Switzerland, and **Rune Naeri**, from Norway, will visit UIUC from May 7 to 9. They will then be placed with 4-H families for a four-month stay in Illinois in a program arranged by L. Ann Rund, Cooperative Extension Service, room 1901 University Inn, 333-0910.

K. Saio, National Food Research Institute, Tsukuba, Japan, will meet with Food Science and INTSOY faculty on May 12 to discuss the soyfood industry in Japan.



VISITING RESEARCHERS

Zhen-yuan Wang is a visiting scholar from Jiangsu Academy of Agricultural Sciences, Nanjing, Jiangsu, China. He is working for one year in the laboratory of William L. Ogren, Agronomy, studying the regulation of rubisco activation level.

Natuki Yamasita, associate professor of chemistry, Faculty of Science and Engineering, Kinki University, Osaka, Japan, is spending a one-year sabbatical leave at UIUC beginning in mid-April. Dr. Yamasita is conducting research with Lun-Shin Wei, Food Science, on soy protein chemistry.

Byeong Kirl Baek, Department of Veterinary Medicine, College of Agriculture, Chonbuk National University, Jeonju, Korea, is a visiting scholar for one year in veterinary medicine. He is working with Kenneth S. Todd, Veterinary Pathobiology, and Joseph A. DiPietro, Veterinary Clinical Medicine, on applied aspects of parasitology.

Luiz Sergio Coelho of EMBRAPA's national swine research center in Concórdia, Santa Catarina, Brazil, will be at UIUC from May 5 to 23 to work with swine nutritionists in Animal Sciences. His travel is sponsored by the Food and Agriculture Organization (FAO).

Under the supervision of Mahmood Khan, Foods and Nutrition, **Brian M. Rabot** and **David Martin Payne**, Huddersfield Polytechnic, Huddersfield, England, are visiting UIUC for the spring semester as exchange students.

SEMINAR

May 5 The Immunology of *Eimeria* Infections — Margaret Elaine Rose, Houghton Poultry Research Station, Houghton, Huntington, England.
4:00 p.m., room 2251 Veterinary Medicine Basic Sciences Bldg., 2001 South Lincoln Avenue, Urbana.
* Veterinary Medicine seminar

FELLOWSHIPS AND GRANTS

June 1, 1986, is the application deadline for the small grants program of the **National Center for Food and Agricultural Research**. Projects which deal with current or emerging public policy issues of national significance involving agriculture and its relationships with international trade and foreign affairs, food and nutrition,

natural resources and the environment, or domestic economic affairs are eligible. Information about the program is available from the Campus-Wide Research Services Office, 128 Observatory.

June 15, 1986, is the application deadline for the **Indo-American Fellowship Program** for 1987-1988. Awards are available in all academic disciplines, and scholars with limited or no prior experience in India are especially encouraged to apply. Application forms are available from the Council for International Exchange of Scholars, 11 Dupont Circle, Washington, D.C.; telephone 202-939-5469.

July 1, 1986, is the application deadline for fellowships from the **American Institute of Pakistan Studies**. The Institute offers predoctoral, postdoctoral, library services, and professional development fellowships for students and scholars engaged in research on Pakistan. Suitable topics include rural development, agriculture, local government, economic problems, demography, and broader historical and cultural subjects. Application details are available from the Campus-Wide Research Services Office, 128 Observatory.

VISITORS RECENTLY ON CAMPUS

Eugenio del Rio, Aceitera la Junta, Guadalajara, Mexico, spent March 19 to 26 studying pet foods with James E. Corbin, Animal Sciences.

From March 24 to 28, **Eugene Pipano**, Kimron Veterinary Institute, Bet Dagan, Israel, visited with Miodrag Ristic and his staff in Veterinary Pathobiology. Dr. Pipano is director of a joint program between the Kimron Veterinary Institute and UIUC's College of Veterinary Medicine on the development of a vaccine for bovine babesiosis. The program is supported by the Binational Agricultural Research and Development (BARD) fund.

Roger Collison, Catering Research Centre, Huddersfield, England, visited the Department of Foods and Nutrition, March 25 to 27. His visit included discussions with Mahmood Khan on student exchanges and the possibility of collaborative research.

Five young farmers from Panama arrived in Illinois on April 3 to live on farms and learn about U.S. agriculture. **Rafael Guevara**, **Dalys Esther Jaén**, **Sixto Manuel Madiedo**, **Julio Rodriguez**, and **Alejandro Calderon Carrasco** are participating in a USAID Peace Scholarship Program administered through the 4-H program of the

Cooperative Extension Service. They participated in a two-day orientation program presented by L. Ann Rund and Robert F. Long, Cooperative Extension Service, before being placed with Illinois farm families. The five farmers will remain in Illinois until mid-August.

Zarina Bhatti, Women in Development/Social Science Officer, USAID mission in Delhi, India, visited UIUC on April 7 and 8. Ms. Bhatti presented two lectures, one on preparation of technical proposals for USAID and the other on the integration of women into development projects in India.

A seven-member team visited UIUC from April 13 to 15 to review our proposal to establish a long-term institutional development relationship with Egerton College, Ngoro, Kenya. Team members **David Lundgren**, Chief, Agriculture Division, USAID/Kenya; **Richard Musangi**, Principal, Egerton College; Chairman **Dawson Mlamba**, **Isaac Mwai**, and **Henry Ogala**, Board of Trustees, Egerton College; **George Kimani**, Deputy Director of Agriculture, Government of Kenya, Nairobi; and **Joseph Lijembe**, Deputy Permanent Secretary, Ministry of Education, Science, and Technology, Government of Kenya, Nairobi, met with campus and college administrators and faculty members and toured facilities. UIUC was one of three finalists for the Egerton proposal.



UIUC received a site visit as part of the evaluation of our proposal for a long-term institutional development project at Egerton College, Ngoro, Kenya, April 13 to 15. Pictured here are (back row, left to right) John J. Nicholaides III, Richard Musangi, Joseph Lijembe, Henry Ogala, and Dean John R. Campbell; (front row, left to right) David Lundgren, Dawson Mlamba, George Kimani, and Isaac Mwai.

The International Agriculture Newsletter is published monthly by the Office of International Agriculture, University of Illinois at Urbana-Champaign, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, 61801; J. J. Nicholaides III, director; Bonnie J. Irwin, editor. Faculty members and departments are encouraged to submit newsletter items. Contact the Office of International Agriculture to receive your own copy of this newsletter. The University of Illinois at Urbana-Champaign is an affirmative action/equal opportunity institution.

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INTERNATIONAL AGRICULTURE NEWSLETTER

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June 1986, No. 97

WHAT DOES INTERNATIONAL AGRICULTURE MEAN TO ILLINOIS FARMERS?

Willard Severns

If you had asked five years ago what international agriculture means to Illinois farmers, you would have received a very different answer than you would today. A few years ago, many of us thought international agriculture meant that we produced and marketed a constantly increasing amount of agricultural products to a constantly expanding group of world buyers. Today, we have seen this definition collapse. Demand is less than we hoped, competition is greater than imagined, and we find that we are no longer in the driver's seat. The one-way street of rapidly growing markets for our products turned into a busy two-way street. How did our expectations change so quickly? Here are my thoughts.

Three phases. U.S. agriculture has gone through three phases during the second half of this century. The first phase lasted the longest, up until the early 1970s. It was the era of production. Prices for commodities and interest rates were stable, and events in the world markets were of relatively little significance because less than 10 percent of U.S. agricultural production moved into world channels.

Starting in the early 1970s, export markets became an important factor in U.S. agriculture. By 1980-1981, yields from two acres out of five were marketed overseas. The expectation for continued demand from the world markets was so high that we added seventy million new acres of croplands during the 1970s. Opinion was nearly unanimous that both world demand and inflation in the U.S. economy were going to continue at record rates.

Unfortunately, in the 1980s we find ourselves in the third phase, and it is one we had not predicted. Domestically, inflation rates are lower than forecasted and the value of land and other items of farm equity have eroded rapidly. High real interest rates have also put a financial squeeze on many producers. However, probably the most significant factor has been the sudden drop in exports. We went from a high of \$43 billion per year in the early 1980s to an estimated \$28 billion for 1986.

U.S. farm policies, which support prices by withdrawing commodities from the marketplace, are not working in this environment. Those policies were designed when the U.S. farm economy had few exports. To our dismay, in the past four years we discovered that we can spend large amounts of money on price support activities and yet not have a positive impact on farm income. In fact, price supports may have accelerated the loss of export market shares. U.S. agriculture now exists in a world economy.

Increased production. One reason for the drop in exports is that some of our customers from the 1970s became competitors. Productivity has increased tremendously around the world. Both the lesser developed countries and developed economies, such as countries in the European community, have added significantly to the availability of agricultural products on the world market. Through pricing strategies, developed countries have taken a greater share of world export markets.

In the 1970s China was viewed as one of the greatest potential markets for U.S. farm products. China had a population of nearly a billion people and a low level of agricultural productivity. Much to our surprise, we have seen Chinese grain and oilseed production increase by 43 million metric tons. The total agricultural output of China has increased by more than 50 percent in just a little over six years.

In terms of the world situation, production is outstripping demand. In the last four years, farmers worldwide have produced an average of 60 million tons more grain and oilseeds than the market could absorb. U.S. policy diverted about 20 million metric tons of grain capacity equivalent every year, but this has been more than offset by increases in world production.

Research, an international commodity. Research, the key to these dramatic increases in production, is an international commodity. Some farmers feel that by shar-

ing research we depress prices and farm income. However, these people aren't aware that the United States does not have a monopoly on agricultural research.

One of the greatest breakthroughs has been in the area of hybridization of seeds. The yields of many commodities have increased dramatically through improved seed technology. In the United States, for example, we have seen yields for wheat increase from 40 bushels per acre to 100 bushels per acre. Around the world, higher-yielding seed cultivars are the rule rather than the exception.

In the dairy area, breakthroughs just on the horizon include the bovine growth hormone, which was discovered in Europe. A simple hormone injection costing only about 50 cents a day could increase dairy cow production by 15 to 20 percent.

New cost-effective chemicals are available in the market place. These chemicals cost more on a volume basis but less on a per unit basis. This helps to improve profits by lowering production costs.

We have to accept the fact that many of these research breakthroughs came from outside the state and outside the United States. More than three-fourths of the new post-emergence pesticides now in use were not developed in the United States.

A market development breakthrough called high fructose corn syrup is no stranger to Illinois. In the United States, it has surpassed sugar as the major caloric sweetener. Although this new product has been popularized in the United States, the technology was developed in Japan.

Impact on Illinois. Lowell D. Hill of UIUC's Department of Agricultural Economics did a study in the late 1970s showing that Illinois has a major stake in world markets. His study revealed that export levels for corn and soybeans from Illinois were nearly double the amount projected on the basis of production.

The combination of two factors has given Illinois this stake in the health of the world agricultural market economy. The first is the transportation infrastructure needed to meet world bulk commodity markets. The second factor is the predominance of grain processors that produce value-added products which move into world markets.

Internationalization of companies. A good example of the new international character of companies is the farm machinery industry. Ten years ago all major machinery manufacturers in the United States were well-established American companies, and they were expanding aggressively. Recently, the farm machinery industry is becoming increasingly internationalized. Foreign and U.S. companies are merging. Parts are manufactured in other countries and then used as components in machin-

ery assembled and sold in the United States. All in all, it's becoming a smaller, downsized industry with international ownership, production, and marketing. The move towards becoming international can't be stopped, given present economic pressures.

Role of the United States. One of the key problems is our failure to recognize the need to become international. The United States has become the residual supplier to world markets, and recent experiences show that this is a losing game. In the last four years, world grain production has gone up by 14.5 percent, total world imports are down 10 percent, and U.S. exports of agricultural products have dropped by 21 percent.

The future. The markets themselves are still growing. World population is increasing by 75 million people a year. Two questions remain unanswered: Who will provide the food to feed them? At what price will these commodities trade?

Illinois is completely dependent upon what happens in the rest of the world. The research breakthroughs that are coming at us in a seemingly endless way cannot be ignored. We have to respond to them and, in many cases, we'll be forced to adopt these new technologies.

We must also recognize that U.S. farm policies cannot continue to set prices for the world. Use and competition must ultimately set prices. We have recently seen that U.S. loan rates, in conjunction with the rapidly increasing strength of the U.S. dollar, served to provide an umbrella for many other suppliers to world markets. We must move away from setting world prices at the expense of U.S. taxpayers and farmers. Lower cost of production is critical and will affect whoever is able to attain and retain markets.

We recognize now that we must compete or we must shrink our farm industry dramatically. Only five years ago, over 40 percent of the total U.S. agricultural production was sold on world markets. What if the United States decides to produce only for domestic markets? The price of shrinking is not that simple. The continuing breakthroughs in production technology dictate that you would have to shrink more each year. Rigid supply controls would be needed to prop up prices.

Historically we have done a poor job of aggressively pursuing markets. The United States has been a reluctant trader and other countries have been much more aggressive at marketing their products and their technology.

The price of retreating from world markets is too high. World agriculture, like the computer field and other areas, is a high-tech battlefield. The increasingly technical nature of production, marketing, and product research is, and will continue to be, an international process.

Right now we are redefining the concept of comparative advantage. I have confidence that a state like Illinois — with its resources, research and production know-how, and marketing infrastructure — can remain competitive. But first we must go through a process of reevaluation, become more efficient, and be more aggressive in our commitment to world trade.

We must make a commitment that we are a part of the world agricultural system. The future of farming in Illinois is tied to international agriculture and we cannot turn back the clock. Some view this as a threat. I think of it as a new challenge that I know we can meet.

Willard Severns is on the Board of Directors of the Illinois Farm Bureau and a member of the International Agriculture Advisory Committee, Office of International Agriculture, UIUC. He has also served as a member of the Board of Directors of the American Soybean Association.

NICHOLAIDES' NOTES

It is with pleasure that we announce the addition of a fifth major project to the Office of International Agriculture. UIUC was chosen to design and implement the Institutional Development for Agricultural Training (IDAT) project at Egerton College, Njoro, Kenya. IDAT has a two-fold purpose: to help strengthen and expand Egerton College into a major regional center for agricultural training, adaptive research, and educational outreach; and to establish a long-term collaborative relationship between Egerton College and UIUC.

A word of special thanks to Dean John R. Campbell, Vice-Chancellor Edwin L. Goldwasser, and Chancellor Thomas E. Everhart who contributed so much to making the site visit of our reviewers the best with which I have ever been associated. The UIUC faculty members who formed our "Kenya team" and interacted closely with the site visit team were superb: Eldon L. Johnson, Thomas A. McCowen, John W. Santas, and Burton E. Swanson (team leader), Office of International Agriculture; Roger L. Courson, Vocational Agriculture Service; Mildred B. Griggs, Vocational and Technical Education; John E. Terwilliger, Agriculture Administration; and Warren K. Wessels, Office of Resident Instruction. The activities organized by Lois Johnson, Iris Swanson, and Gwynne Nicholaides contributed to our success, as did the special meal arrangements by Anastasia M. Christen, Illini Union Food Service. To all these mentioned and to the many unmentioned who were involved in the site visit, I offer my sincere thanks.

Our "Kenya team" left UIUC in May to spend from three to six weeks at Egerton College to help design this institutional development and collaboration project. Egerton College will adopt the broad philosophy and organizational patterns of U.S. land grant institutions, with UIUC serving as its major educational resource and institutional model. The anticipated five-year project is funded by the U.S. Agency for International Development (USAID).

According to Dean John R. Campbell, IDAT is seen as a challenging opportunity for Illinois faculty, students, and other agriculturalists to access the many educational situations in Kenya and the African continent.

Established in 1939, Egerton College is considered one of the major agricultural institutions in East Africa. It currently has 134 faculty members and a student enrollment of more than 1,600. The college offers three-year diploma programs in sixteen agricultural and home economics disciplines, as well as community-oriented programs and courses.

Under IDAT, comprehensive four-year programs will be implemented at Egerton College in agricultural education, extension, and home economics. The first phase of the project will emphasize institutional development, education and training, institutional administration, curriculum development, and instructional materials production. Continuing education programs, adaptive research, and related outreach activities are also planned. Later phases of the project will place increased emphasis on mutual interests and cooperation, including interchange of agricultural faculty, students, scientific information, and other educational resources.

The Office of International Agriculture has published the first issue of *International Agriculture Update*. Articles in *International Agriculture Update* focus on programs conducted by the Office of International Agriculture and include items on current developments and issues in international agriculture, veterinary medicine, and human resources and family studies. This new quarterly newsletter is intended for off-campus audiences: Illinois farmers, agribusiness leaders, members of departmental and college advisory committees, state and national elected representatives, other U.S. universities, USAID personnel, and donor agencies.

We hope to reach a broad audience and solicit your suggestions for names to be added to our mailing list. We are particularly interested in agribusiness cooperators with your department, businesses and donors that give grants and scholarships, and farm leaders. If you would like a copy of our premier issue, stop by or write to us in 113 Mumford Hall or call Bonnie Irwin at 333-5835.

—J. J. Nicholaides, III

INTERNATIONAL ACTIVITIES

Congratulations to **Stephen C. Schmidt**, Agricultural Economics, whose project on Export Opportunities for High-Valued Agricultural Products was funded by the Agricultural Cooperative Service (ACS), USDA. For two months next fall or winter, Dr. Schmidt, Alan Malter, graduate student in Agricultural Economics, and Bruce Reynolds, ACS/USDA, will conduct a field survey of buyers and users of processed products in Hong Kong, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, and Taiwan.

At the invitation of Smithsonian Tropical Research Institute, Panama City, Panama, **Scott K. Robinson**, Section of Wildlife Research, Illinois Natural History Survey, spent two weeks in Panama in mid-March. Dr. Robinson presented seminars on his census work of bird communities in the Manu Park in Peru.

Robert Dantzer, visiting professor in Animal Sciences, was in Europe in late April. He attended the Interdisciplinary Symposium on Stress in Farm Animals, Oesterbeek, Netherlands, April 17 and 18, and participated in an evaluation of French neurosciences, Bordeaux, France, April 22 to 26.

"Gene Transfer in *Streptococcus*" and "Antibiotic Susceptibility of Cellulolytic *Ruminococcus* Species" were the titles of the invited papers that **Bryan A. White**, Animal Sciences, presented at the International Symposium on Genetic Engineering of Rumen Microorganisms. The symposium was held at the Universiti Pertanian Malaysia, Kuala Lumpur, April 23 to 25, as part of the Association of Southeast Asian Nations (ASEAN) Science and Technology Week.

Sponsored by the Inter-American Institute for Agricultural Cooperation (IICA), **Ronald D. Smith**, Veterinary Pathobiology, visited Brazil from April 25 to May 5. Dr. Smith presented the keynote address entitled "The Value of Epidemiologic Models of *Boophilus*-Transmitted Hemoparasites in Latin America" at a workshop on control of ticks and tick-borne diseases held in Porto Alegre. He also discussed the application of mathematical models to animal disease control programs with personnel in the Ministry of Agriculture in Brasilia.

Kathleen Cloud, Office of International Agriculture, participated in a retreat to plan the future of the Association for Women and Development, Wingspread, Racine, Wisconsin, May 2 to 6.

Clinton Lee Armstrong, graduate student in Agricultural Engineering, is a consultant for the U.S. Peace

Corps in Mauritania from May 6 to June 4. He developed and taught a program to Peace Corps volunteers on arid land and oasis irrigation and irrigation technology. On the trip home, Mr. Armstrong will visit the Danish Hydraulic Institute and the National Institute of Agricultural Engineering, Silsoe, England.

At the invitation of the Swedish University of Agricultural Sciences, **Donald F. Schoeneweiss**, Botany Section of the Illinois Natural History Survey and Department of Plant Pathology, presented lectures on environmental predisposition of trees to fungal damage during a short course on forest diseases, May 12 to 14, at the Uppsala campus. While in Sweden Dr. Schoeneweiss also lectured at the campus in Umea and at the University of Stockholm.

Sidney L. Spahr, Animal Sciences, traveled to Europe and Israel during the second half of May. He visited government research facilities for dairy automation in Wageningen, Netherlands, and Braunschweig and Keil, Germany. In Israel, Dr. Spahr reviewed progress on a joint project with the Israel Institute of Technology (TECHNION), Haifa, on automation for dairy herd management.

A UIUC team is in Kenya during May and June to design an institutional development and collaborative project at Egerton College (see details in "Nicholaides' Notes" on page 3). Team members and their dates of travel are: **Eldon L. Johnson**, May 8 to June 18, **Thomas A. McCowen**, May 27 to June 18, **John W. Santas**, May 9 to May 25, and **Burton E. Swanson** (team leader), May 6 to June 11, Office of International Agriculture; **Roger L. Courson**, Vocational Agriculture Service, May 8 to May 31; **Mildred B. Griggs**, Vocational and Technical Education, May 8 to May 25; **John E. Terwilliger**, Agriculture Administration, May 8 to May 31; and **Warren K. Wessels**, Office of Resident Instruction, May 8 to May 31.

Roy K. Simons, Horticulture, discussed the anatomy of different root types of *Malus* with scientists at the East Malling Research Station, Maidstone, Kent, England, May 19 to 25.

Karen Bender and **Jeanne Bailey**, Agricultural Economics, are conducting a study on the demand for corn and soybeans in the major processing countries of Europe, May 20 to August 31. **Lowell D. Hill** and **Gerald C. Nelson**, Agricultural Economics, are supervising the research. Dr. Hill will be in Europe from May 28 to June 16 to help initiate the study and conduct preliminary interviews. The study is being conducted in collab-

oration with the Institut de Gestion Internationale Agro-Alimentaire, with funding in part from the American Soybean Association and the College of Agriculture.

Sandra Brown, Forestry, participated in a workshop on Tropical Soil Biology and Fertility, Yurimaguas, Peru, May 25 to 31. The workshop was sponsored by the International Union of Biological Sciences and UNESCO. During June Dr. Brown will be in Venezuela to collect field samples for a project on the decomposition of wood.

Marshal D. McGlamery, Agronomy, will be a consultant to the Consortium for International Crop Protection (CICP) on a pesticide application program in Grenada during June.

Keith W. Kelley, Animal Sciences, will present two invited papers at the Second International Workshop on Neuroimmunomodulation, Dubrovnik, Yugoslavia, June 1 to 6. "Malfunction of the Pituitary-Thymic Axis in Aged Rats" was coauthored with Susan Brief, Holly Westly, Jan Novakofski, and Peter J. Bechtel, Animal Sciences; Joseph Simon, Veterinary Pathobiology, and Edward Walker, Indiana University. "Identification of Pro-Opiomelanocortin mRNA in Newcastle Disease Virus-Infected Murine Splenocytes" was coauthored by Holly Westly and Alice Kleiss, Animal Sciences; and Paul Wong and Pick-Hoong Yuen, Microbiology. Dr. Kelley will also present a seminar at the Sondoz Company, Basel, Switzerland, and visit INRA researchers at Tours, France.

During June, **Sorab P. Mistry**, Animal Sciences, will be a guest professor at the Swiss Federal Institute of Technology, Zurich, and the Faculty of Medicine, Autonoma University, Madrid, Spain. Dr. Mistry will give lectures and seminars on bioenergetics and metabolic regulation.

A. W. Burger, Agronomy, will preside at the Thirty-Second Annual Conference of the National Association of Colleges and Teachers of Agriculture, Ridgetown, Ontario, Canada, June 14 to 20. Dr. Burger is President of the Association.

Rabel J. Burdge, Agricultural Economics and Institute for Environmental Studies, will be a visiting scholar in the School of Australian Environmental Studies, Griffith University, Brisbane, from June through August. Dr. Burdge will present lectures on social impact assessment, public involvement in decision making, and other areas of environmental analysis.

Folke Dovring, Agricultural Economics, will participate in the International Symposium on Windbreak Technology, Lincoln, Nebraska, June 22 to 28.

VISITING RESEARCHERS

Lu Qin, Department of Horticulture, Southwest China Agricultural University, arrived in early March to spend five months in the laboratory of James E. Harper, Agronomy and USDA. She is conducting research on nitrogen metabolism of soybeans.

Mohammad Shahid, Chairman of the Entomology Department, Northwest Frontier Province Agricultural University, Peshawar, Pakistan, will arrive at UIUC in mid-June for a three-month postdoctoral study program in Agricultural Entomology and the Section of Economic Entomology, Illinois Natural History Survey. Dr. Shahid will study population dynamics, economic thresholds and injury levels, and nonchemical control of insect pests. His training is part of TIPAN (Transformation and Integration of the Provincial Agricultural Network).

VISITORS COMING TO CAMPUS

Tracey E. Errington, Annfield Farm, Cockermouth, Cumbria, England, will visit UIUC from June 10 to 12. Ms. Errington, an International 4-H Youth Exchange participant, will then stay with 4-H families in Illinois until August. Her program is being arranged by L. Ann Rund, Cooperative Extension Service.

Sponsored by the American Soybean Association, a **soy-food team from Korea** will visit UIUC on June 11 to discuss soyfood processing and grain quality. At UIUC their schedule is being arranged by Danny R. Erickson, 113 Mumford Hall, 333-6337.

VISITORS RECENTLY ON CAMPUS

Nalumino Mundia, Ambassador and former Prime Minister, **Alex Tubi**, First Secretary, and **Stella Chinyimba**, Secretary, Embassy of the Republic of Zambia, Washington, D.C., visited UIUC from April 23 to 27. Ambassador Mundia presented the keynote address at the symposium entitled "Agricultural Policy and African Food Security: Issues, Prospects, and Constraints, Toward the Year 2000." The group also met with ZAMARE (Zambia Agricultural Research and Extension) project students. On April 26, they toured a private fertilizer company and the farm of Harvey Lewis, near Joliet.

Nasrum Djuned, Chairman of the Faculty of Agricultural Economics, University of Syiah Kuala, Darussalam, Banda Aceh, Indonesia, visited UIUC on April 28. He met with Melvin M. Wagner, John T. Scott, and Wesley D. Seitz, Agricultural Economics, and John W. Santas, Office of International Agriculture, and toured the Agronomy-Plant Pathology South Farm. Mr. Djuned chose to visit UIUC because the president of the University of Syiah Kuala is a UIUC graduate and the School of Agriculture is modeled after the College of Agriculture at UIUC. Mr. Djuned's trip to the United States was sponsored by the U.S. Information Agency.

On April 28 and 29, **Kenneth Swanberg**, USAID/Washington, reviewed the INTERPAKS project and met with INTERPAKS faculty members.

H. V. Hughes, principal of the Royal Agricultural College, Cirencester, England, and **George Jackson**, agricultural director of the Royal Agricultural Society of England, visited the Office of Agricultural Communications and Extension Education on April 28 and 29. They discussed plans by the Royal Agricultural College to establish a teaching program in agricultural communications. They also met with Dale H. Lattz, Agricultural Economics, Charles E. Olson, Resident Instruction, John J. Nicholaides, International Agriculture, and James W. Carey, College of Communications.

Ove Olson, Department of Farm Buildings, Swedish University of Agricultural Sciences at Lund, discussed behavior and environment in swine buildings with Stanley E. Curtis, Animal Sciences, and Arthur J. Muehling and Leslie L. Christianson, Agricultural Engineering, May 4 to 10.

Recent visitors with Lowell D. Hill, Agricultural Economics, include: **Tippie Muller**, General Manager, Clocolan Cooperative, South Africa, May 8 and 9, to discuss maize marketing; and **Klaus D. Schumacher**, Toepfer International, Hamburg, Germany, May 8, to discuss the farm bill and Dr. Hill's study on corn and soybean processing industries in Europe.

An eight-person **Southeast Asia Food Trade Team** met with INTSOY and Food Science faculty on May 14. Their visit was arranged by the American Soybean Association.

Dan Minnick, Head, Training and Technology Transfer, International Rice Research Institute, Manila, Philippines, met with John J. Nicholaides and John L. Woods, International Agriculture, and Violet M. Malone, Agricultural Communications and Extension Education, May 23. They discussed training programs and short courses, and the possibility of collaborative activities.

John Brien, Head of Extension Education, University of Sydney, Australia, visited UIUC on May 26 and 27. He met with faculty in International Agriculture, Agricultural Communications and Extension Education, and the Study Abroad Program.

Three scientists from the Netherlands discussed membrane technology with Munir Cheryan, Food Science, on May 29. They were **Berend Ph. ter Meulen**, Netherlands Organization for Applied Research, **Jan H. Hane-maaijer**, Netherlands Institute for Dairy Research, and **Henrikus J. M. van Nistelrooij**, Gist-Brocades.

PUBLICATION AVAILABLE

Copies of **Need for and Possibilities of Increasing Program Relevance and Related Support Services** are available from the INTERPAKS Office, 113 Mumford Hall, 333-5831. This paper was presented by John L. Woods at a seminar on international education and training sponsored by BIFAD (Board for International Food and Agricultural Development) and ISEC (International Science and Education Council), Washington, D.C., April 23 and 24, 1986.

LANGUAGE CLASSES FOR AGRICULTURE

Plan ahead to take advantage of these special language classes being offered next fall. Call Margo De Ley, 324 Coble Hall, 333-1977, for more information.

French for Agriculture and Rural Development is for faculty, staff, and students with a basic knowledge of French who wish to maintain and improve their language skills. The class will meet for 1.5 hours per week beginning in mid-October.

Two levels of **Spanish for Agriculturalists** are being offered for faculty and staff. Classes will meet beginning in mid-October.

Low intermediate, which will meet for 1.5 hours per week, is for those who have completed the equivalent of the intersession class.

Intermediate is designed for people with a basic knowledge of Spanish who wish to maintain and improve their language skills. The class will meet for 2 hours per week.

Elementary Spanish for Agriculture and Related Fields I (Spanish 141) and **II** (Spanish 142) is a specially designed course for students in agriculture and veterinary medicine. It includes substantial material on culture, social behavior, attitudes, and customs. Classes begin August 28, 1986.

GRANTS AND FELLOWSHIPS

June 15, 1986, is the deadline for applications for **Indo-U.S. Subcommission Research Awards**. Long-term (six to ten months) and short-term (two to three months) research fellowships are offered to researchers in the natural, applied, and social sciences. The program seeks U.S. citizens who are not India specialists and who have limited or no experience in India for educational exchange. Application information is available from the Campus-Wide Research Services Office, 128 Observatory, 333-0284.

June 30, 1986, is the application deadline for FAO's **Andre Mayer Research Fellowship Programme** for 1986-1987. Nominations are requested for six projects: selection of *Rhizobium phaseoli* efficient strains for common beans in Rwanda, 18 month project; land management information system for developing countries, 12 months; nutritional yields of various cropping systems and farming systems in Nigeria, Indonesia, or Panama, 18 months; integration of nutritional considerations into fishery development projects, 12 months; fish ageing by means of micro-structures in the otoliths, 12 months; investigation in intermediate technology in wood harvesting with strong participation of the people, 14 months. Application information is available from Bonnie Irwin, 113 Mumford Hall, 333-5835.

July 31, 1986, is the application deadline for **research fellowships at the University of Melbourne**, Australia. Fellowships support full-time research in any department of the University of Melbourne of postdoctoral scholars with new ideas, skills, and techniques. Application information is available from the Campus-Wide Research Services Office, 128 Observatory Bldg., 333-0284.

October 1, 1986, is the application deadline for **international travel funds** available to University of Illinois faculty and staff through MUCIA (Midwest Universities Consortium for International Activities) and the Office of the Vice President for Academic Affairs. Grants of up to \$1,000 are available to support international travel which will result in the development or enhancement of international programs at the University of Illinois. Matching funds must be secured from institutional sources. The next application opportunity is February 1, 1987. Guidelines and request forms are available from T. John Kim, MUCIA Liaison Officer, 311 Coble Hall, 801 South Wright Street, Champaign, IL 61820, telephone (217) 333-1993.

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International Curricula in Agriculture

Charles E. Olson

How does a College of Agriculture "internationalize" its undergraduate curricula? That question is receiving increased attention at the University of Illinois at Urbana-Champaign (UIUC). Today's students need a global perspective to help solve the food and fiber problems facing American agriculturalists as well as people throughout the world. However, there is no simple directive on how to achieve this noteworthy objective.

In 1984, an ad hoc committee investigated a proposal to implement an undergraduate curriculum in international agriculture. The committee reviewed the curricula in schools with similar programs and surveyed companies with international employment opportunities. Consensus was that the technical and disciplinary skills from an agricultural degree are an excellent background for students interested in careers in an international setting. Students should include internationally oriented courses in their program of study, but as a complement to their major field of study and not in lieu of it.

The committee recommended that instead of developing a new curriculum, efforts should be launched to make internationally oriented courses and activities more visible to College of Agriculture students. As a result, the Office of International Agriculture and the Office of Resident Instruction are working together to assist students.

Course listings. The Office of International Agriculture and the Office of Resident Instruction are sponsoring a graduate assistantship position to compile material to assist students. "Opportunities for Study in International Agriculture" is the title of a new section in the *Agriculture Student Handbook*. The chapter lists College of Agriculture courses with international relevance, foreign languages taught at UIUC, and undergraduate-level international courses taught in departments outside the college.

Expanding the chapter from the handbook is a booklet that lists all courses on campus with international

relevance. The entries, numbering more than 150, are organized by department. The booklet was distributed to all departments and is also available on request.

Employment opportunities. A directory of international employment opportunities was prepared and is continually being updated. Inquiries were sent to hundreds of agricultural enterprises. Information listed includes location and type of employment available, degree(s) required with preferred majors, and foreign language requirements, if any. The responses are filed in loose-leaf notebooks and divided into such categories as private businesses, commodity organizations, voluntary organizations, governmental agencies, and educational and technical assistance organizations. Copies are available in the College of Agriculture Library, 220 Mumford Hall; the Career and Placement Center, 108 Mumford Hall; and in the Office of International Agriculture, 113 Mumford Hall. The directory currently has more than 200 entries.

Language training. A staff member in the Department of Spanish, Italian, and Portuguese developed and is now teaching a two semester course entitled "Elementary Spanish for Agriculture and Related Fields." Intended for students with no previous Spanish-language experience, the course emphasizes agricultural vocabulary and conversational and reading skills. It includes substantial material on culture, social behavior, attitudes, and customs. This course can be used to fulfill the six semester-hour humanities requirement needed by all students in the College of Agriculture. (Introductory foreign language courses are normally not accepted in this category.) Similar courses for other languages may be developed in the future.

Study abroad. The opportunity to study and travel abroad is seen as a highly desirable experience for College of Agriculture students. Working closely with the campus Study Abroad Office, we are identifying foreign

institutions and programs especially suited for College of Agriculture students. We are also exploring possibilities for exchange programs with specific institutions. A student can earn up to 36 semester hours of academic credit through a study abroad program.

There are several programs where students can travel and work in a foreign agricultural setting and receive credit for this valuable learning experience. Students enroll in an independent study class under the guidance of a College of Agriculture faculty member. Up to four semester hours of credit can be earned and recorded as "international experience" on the transcript.

Future activities. These include the possible creation of an international agriculture student club, and a study/travel program specifically for UIUC College of Agriculture students. Information will also be collected during the summer from new students enrolling in the college about their experiences and future interest in international opportunities.

WID involvement. The Office of Women in International Development (WID) has been actively involved in expanding the curriculum for undergraduates at UIUC in the area of women in international development. Under a grant from the U.S. Department of Education, three courses were developed in the College of Agriculture and segments on women and development were introduced into six courses. The WID Office also published seven curriculum guides and two bibliographies. These are used by faculty and students at UIUC as well as by universities throughout the United States and in eleven foreign countries.

International agriculture courses for undergraduates include: Comparative Family Education, Consumption in Developing Countries, Crops and Man, Economic Development in India and Southeast Asia, Economic Development in Latin America, Economics of Agricultural Development, Economics of International Trade, Education for Rural Development in Low Income Countries, Elementary Spanish for Agriculture

and Related Fields, International Experience, International Agriculture Study (Study Abroad), International Food Crops, Land Economics, Rural Social Change, Social Change in Developing Areas, Socio-Cultural Factors in African Economic Development, Tropical Forestry Ecosystems, and World Animal Agriculture.

UIUC units offering undergraduate international courses include: Advertising, African Studies, Anthropology, Asian Studies, Business Administration, Communications, Economics, Educational Policy Studies, Educational Psychology, Finance, Geography, History, Labor and Industrial Relations, Law, Mining Engineering, Political Science, Religious Studies, Social Work, Sociology, Urban Planning, and Vocational and Technical Education.

Foreign language course offerings include: African — Amharic, Arabic, Bemba, Fula, Hausa, Lingala, Ndebele, Shona, Sotho, Swahili, Wolof, Xhosa, Zulu; Asian — Burmese, Chinese, Hindi, Indonesian, Japanese, Kashmiri, Korean, Sanskrit, Thai; Middle Eastern — Arabic, Hebrew, Persian, Turkish; European — Bulgarian, Czech, French, German, Greek, Italian, Latin, Lithuanian, Polish, Portuguese, Rumanian, Russian, Serbo-Croatian, Spanish; Latin American — Portuguese, Quechua, Spanish.

It is important for students in the College of Agriculture to add an international dimension to their education. The world is becoming increasingly interdependent and it is no longer adequate to understand only Illinois or U.S. agriculture. Students can integrate a wide variety of courses with an international emphasis into their programs of study.

Charles E. Olson is Assistant Dean of Resident Instruction, UIUC.

International Activities

INTERPAKS and Vocational and Technical Education have agreed to prepare a manual on training evaluation for the Food and Agriculture Organization (FAO), Rome, Italy. **Robert T. Raab**, Agricultural Education, and **Timothy L. Wentling**, Vocational and Technical Education, were in Rome the week of May 26 to begin the

project. **Burton E. Swanson**, INTERPAKS and Agricultural Education, and **Charles D. Clark**, Cooperative Extension Service, will also be involved in the project.

Juju B. Manandhar, who recently obtained his Ph.D. degree in plant pathology working with James B.

Sinclair, has returned to Nepal for a position as Plant Pathologist, Division of Plant Pathology, Department of Agriculture, Lalitpur.

Poo Chow, Forestry, presented an invited paper entitled "Artificial Weathering of *Quercus rubra* Cross Ties" at the International Research on Wood Preservation Annual Conference, Avignon, France, May 25 to 30.

Robert G. F. Spitze, Agricultural Economics, presented an invited paper on agricultural and food policy at a symposium for United States and Russian economists, Boston, Massachusetts, June 9 to 13.

Michael Grossman, Animal Sciences, served as an external examiner for a Ph.D. candidate in the Department of Animal and Poultry Science, University of Guelph, Ontario, Canada, June 11 and 12.

Raymond M. Leuthold, Agricultural Economics, is participating in a faculty exchange program at the University of Abidjan, Ivory Coast, for four weeks beginning June 12. Dr. Leuthold will gather information on Ivorian use of futures markets for cocoa and coffee, and identify possible research projects for Ivorian students who come to UIUC to study agricultural economics.

Attending the First International Veterinary Immunology Symposium, Guelph, Canada, July 2 to 4, are **Harris A. Lewin** and **Keith W. Kelley**, Animal Sciences. Dr. Lewin will present two papers on the immunogenetics of bovine leukemia virus and Dr. Kelley will present two papers on the interrelationships of the endocrine system and the immune system.

Dr. Kelley will then attend the International Immunology Congress, July 6 to 11, and give two papers on hormones and immunity at a preconference symposium, July 4 and 5, Toronto, Canada.

Dr. Lewin is an invited participant to the Third International Bovine Lymphocyte Antigen Workshop, July 27, and will present a paper entitled "Association Between the Bovine Lymphocyte Antigen (BoLA) System and Subclinical Progression of Bovine Leukemia Virus Infection" at the Twentieth International Conference on Animal Blood Groups and Biochemical Polymorphisms, July 27 to August 1, both in Helsinki, Finland.

Margo De Ley, Women in International Development and Office of International Agriculture, will travel to Spain and France to study a Franco-Spanish program for farm workers, July 6 to October 1. For the study, Dr. De Ley will meet with officials and representatives of producers' and growers' groups, visit farm workers on farms in southern Spain, travel with the workers to

the grape harvest in southwestern France, and observe the harvest. The study tour is supported by a grant from the Office of International Cooperation and Development (OICD) of the U.S. Department of Agriculture.

"The Effects of the Timing of Premarital Pregnancy on the Development and Outcome of Marital Relationships" is the title of the paper that **Catherine A. Surra**, Human Development and Family Ecology, will present at the International Conference on Personal Relationships, Tel Aviv, Israel, July 6 to 11. Dr. Surra is a member of the Advisory Council of the International Society for the Study of Personal Relationships and will attend a meeting of the council during the conference.

Richard E. Ford, Plant Pathology, and **Michael E. Irwin**, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey, will represent UIUC at the board meeting of the Consortium for International Crop Protection (CICP), College Park, Maryland, July 8 and 9.

Harold W. Gonyou, Animal Sciences, will be in Europe during the second half of July. He will present a paper on feeding behavior of newly weaned pigs at the annual meeting of the Society for Veterinary Ethology, Wageningen, Netherlands, July 17 to 19, and attend a meeting of the Society for the Study of Animal Behavior, Cambridge, England, July 24 to 25. Dr. Gonyou will also visit laboratories at the University of Newcastle upon Tyne, England, and the Poultry Research Center, Edinburgh, Scotland.

Congratulations to **David H. Baker**, Animal Sciences, who won the 1986 Moorman Travel Fellowship for Animal Nutrition Research. The award is given for excellence in research. During the week of July 17 Dr. Baker will present lectures in Spain on amino acids in animal nutrition. From late July until the end of August, he will be an Underwood Visiting Professor at the Rowett Research Institute, Aberdeen, Scotland, where he will conduct research on new techniques to study nitrogen metabolism in pigs.

"Hybridization and Polyploidy" is the title of the paper that **Johannes M. J. de Wet**, Agronomy, will present at the International Symposium on Grass Systematics and Evolution, Smithsonian Institution, Washington, D.C., July 27 to 31.

Walter E. Splittstoesser, Horticulture, will attend the annual meeting of the Tropical Region, American Society for Horticultural Science, July 28 to August 2, San Jose, Costa Rica, and present two papers: "Sucrose Syn-

thesis in Cassava Leaves," coauthored with J. F. Pereira; and "Response of Bell Pepper to High Rates of Side-dressed Nitrogen," coauthored with John M. Gerber, Horticulture. While in Costa Rica Dr. Splittstoesser will visit vegetable production sites.

Visiting Researchers

Shankariah Chamala, Department of Agriculture, University of Queensland, Brisbane, Australia, spent two weeks during June visiting John van Es, Agricultural Economics, and INTERPAKS personnel.

Pieter Helfferich, graduate student in agricultural engineering at the Agricultural University, Wageningen, Netherlands, will be working on several projects at UIUC's dairy farm from June 16 to November 16 to fulfill the work experience requirement for his degree. Nelson L. Buck, Agricultural Engineering, and Sidney L. Spahr, Animal Sciences, are overseeing his program.

Philip Taylor, University of East Anglia, England, is a visiting postdoctoral research associate in Agronomy. Dr. Taylor will work for one year with Angus G. Hepburn investigating the mechanism of pathogenicity of *Phialophora gregata* in resistant and susceptible soybean cultivars.

Huseyin Misirlioglu, Marmara University, Istanbul, Turkey, is a visiting professor for six months in Agricultural Economics. Dr. Misirlioglu is here on a United Nations fellowship to study and conduct research in agricultural economics and agri-industry development. He can be reached at 351 Bevier Hall, 333-1821.

Sherin Khan, assistant professor of agronomy at the Northwest Frontier Province Agricultural University, Peshawar, Pakistan, and manager of the university's research and demonstration farm, arrived June 16 for a three-month postmaster's program of study in the United States on food legumes, irrigation equipment, and research facilities management. Mr. Khan will divide his stay between UIUC, Southern Illinois University at Carbondale, Washington State University, and California State University, Fresno.

Twelve researchers are enrolled in INTSOY's **Soybean Processing for Food Uses** short course, May 28 to July 15, 1986. They are: **Ofelia Angulo Guerrero**, professor, Graduate School Center, Veracruz, Mexico; **Hsiun Chung Chiu**, tecnico-ingeniero agronomo, Corporación de Desarrollo de Cochabamba, Bolivia; **Jens Peter**

Graverholt, sales manager, Danish Turnkey Dairies, Singapore; **Bambang Gunarto**, sub-director of food crops development in transmigration areas, Department of Agriculture, Jakarta, Indonesia; **Fawzia Hewavitharana**, research officer, Soybean Foods Research Center, Peradeniya, Sri Lanka; **Elizabeth L. H. Kasapu**, home economics officer, Department of Agriculture, Kabwe, Zambia; **Joyce Musonda Mulila**, plant breeder, Mount Makulu Research Station, Chilanga, Zambia; **Fatuma Nkhoma**, home economics officer, Department of Agriculture, Mumbwa, Zambia; **Mercedes C. Carrao Panizzi**, research agronomist, National Soybean Research Center, Londrina, Brazil; **Sadar Purwanto**, Directorate of Agriculture Area Expansion, Jakarta, Indonesia; **Raj Bans Rajor**, scientist, National Dairy Research Institute, Karnal, India; and **Tan Eng Chai**, technical manager, Food Group, Bush Boake Allen Singapore Pty. Ltd., Singapore.

This is the ninth time the course has been taught at UIUC by INTSOY staff and associated members of the Department of Food Science.

Eleven people are enrolled in the INTERPAKS short course **Training of Trainers for Agricultural and Rural Development**, June 16 to July 12, UIUC. The participants are: **David M. Dlamini**, senior extension officer, Ministry of Agriculture and Cooperatives, Manzoni, Swaziland; **Jerry Mfundisi Hlatshwayo**, assistant training officer, Ministry of Agriculture and Cooperatives, Mbabane, Swaziland; **Patel Harmanbhai Lallubhai**, extension educationist, Extension Education Institute, Anand, and Gujarat Agricultural University, Sardar Krishinagar, India; **Asmatullah Khan**, Agricultural Economics, Rural Sociology, and Extension Education, Northwest Frontier Province Agricultural University, Peshawar, Pakistan; **Mohammed El Habib Ibrahim**, training scientist, International Center for Agricultural Research in Dry Areas (ICARDA), Aleppo, Syria; **Bernard Kunene**, senior extension officer, Ministry of Agriculture and Cooperatives, Pigg's Peak, Swaziland; **Anand Swarup Misra**, lecturer in agronomy, Extension Education Institute, Nilokheri, Haryana, India; **Bernardo Ospina**, training associate, Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia; **Mohammad Shahid**, chairman of the Department of Entomology, Northwest Frontier Province Agricultural University, Peshawar, Pakistan; **C. Benjamin Tyson**, extension education specialist, University of Arizona, Tucson, on assignment to the Lesotho Agricultural College; and **Sohair Kamal Yousef**, sociologist, Water District Research Institute, Cairo, Egypt.

Offered for the first time, the course is taught by Violet M. Malone, Office of Agricultural Communications and Extension Education.

Visitors Coming to Campus

Errol D. Rodda, Agricultural Engineering, and TIPAN Team Leader and Institution Development Specialist, Northwest Frontier Province Agricultural University, Peshawar, Pakistan, will visit UIUC from June 30 to July 3. Dr. Rodda will meet with UIUC and Southern Illinois University at Carbondale faculty and administrators working with TIPAN.

Mohammad Asrar, Registrar at the Northwest Frontier Province Agricultural University, Peshawar, Pakistan, arrived June 9 to join the nineteen TIPAN (Transformation and Integration of the Provincial Agricultural Network/Pakistan) participants currently enrolled in advanced degree programs at U.S. universities. He will enroll in a Ph.D. program at UIUC in administration of continuing and higher education.

Several visitors are coming to Urbana-Champaign to view the aphid migration modeling project being carried out by scientists from UIUC's Office of Agricultural Entomology, the Illinois Natural History Survey's Section of Economic Entomology, and the Illinois State Water Survey. **Joseph R. Riley**, Radar Unit of the Tropical Development and Research Institute, Malvern, England, will be here July 17 and 18; and **L. Jane Rosenberg**, Overseas Development and Research Institute, London, England, will visit during the week of July 21.

Gradon Johnstone, Department of Agriculture, Hobart, Tasmania, Australia, will visit Michael E. Irwin, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey, during the week of July 28. They will discuss an on-going cooperative study of landing behavior of aphids as it pertains to the transmission of plant viruses.

Visitors Recently on Campus

On May 23 and 24, twenty-four **dairy nutrition researchers from Japan** visited Animal Sciences. They met with Michael F. Hutjens and Gene C. McCoy, Animal Sciences, and toured the Dust Dairy Farm, Shumway. Their visit was arranged by the U.S. Feed Grain Council.

Ahmad Ibrahim, Rubber Institute of Malaysia, visited UIUC on May 28 as part of a tour of the United States. Dr. Ibrahim, who was traveling on a Hubert Humphrey fellowship, discussed energy from agricultural biomass

with Donald L. Day and Ten Hong Chen, Agricultural Engineering, and Marvin P. Steinberg, Food Science.

Phillip DesMettre, head of the biotechnology programs, Rhone Merieux, Lyon, France, discussed collaborative research on hemotropic diseases with Miodrag Ristic, Veterinary Pathobiology, May 26 and 27.

A group of **twenty-six farmers and agribusiness people** from France visited the Department of Agronomy and United Agriseeds on May 30. They learned about research, extension, and university-industry relationships, visited laboratories, and toured the Agronomy-Plant Pathology South Farm.

John Lindt, World Bank, Washington, D.C., met with John L. Woods and Harold E. Kauffman, Office of International Agriculture, May 30. They reviewed World Bank agricultural programs in Thailand and discussed INTERPAKS programs and projects.

J. F. Morot-Gaudry, Department of Plant Physiology and Biochemistry, INRA, Versailles, France, presented a lecture on aspects of photosynthetic metabolism in corn as part of a visit to the Department of Agronomy, June 2 to 4.

Alexander N. Shimko, Senior Research Fellow at the USSR Academy of Sciences, Institute of the USA and Canada, Moscow, spent June 9 to 12 in the Agricultural Engineering Department discussing mechanization of agricultural production systems with the faculty. Sponsored by the International Research and Exchange Board (IREX), his schedule at UIUC was coordinated by Gene C. Shove.

Peter L. Shalo, Head, Dairy and Food Science Technical Department, Egerton College, Njoro, Kenya, met with Food Science and International Agriculture faculty, June 9 to 13. He visited Illinois to become acquainted with UIUC as Egerton's sister institution in the IDAT (Institutional Development for Agricultural Training) project. Mr. Shalo was a Fulbright scholar at Virginia State University last semester.

A group of sixteen **farmers and agribusiness people from Switzerland** spent the morning of June 10 at UIUC for a program on swine. Aldon H. Jensen, Animal Sciences, spoke to the group about swine production in Illinois and Gilbert R. Hollis, Animal Sciences, spoke on extension education programs. They also toured the swine research facility.

Marvin R. Paulsen and Gene C. Shove, Agricultural Engineering, and Barry J. Jacobsen, Plant Pathology,

discussed grain quality research on corn for export with **Mannosuke Shimizu**, Manager, Grain Department, Zen-Noh Unico America Corporation, New York, and **Kiyoshi Nobeta**, Chief Technical Adviser, Feed Department, National Federation of Agricultural Cooperative Associations (Zen-Noh), Tokyo, Japan, June 11. The visitors also toured a local grain elevator and farm to better understand how corn is produced and handled, and observed corn quality as it exists on the farm.

Ferdinand Hartzenberg, member of Parliament, Lichtenburg, South Africa, visited UIUC on June 13 under the auspices of the International Visitor Program of the U.S. Information Agency (USIA). Mr. Hartzenberg toured the agricultural engineering research farm and discussed minimum tillage with John C. Siemens, Agricultural Engineering; toured the beef cattle research farm with Alvin L. Neumann, Animal Sciences; toured the Agronomy-Plant Pathology South Farm with M. Gene Oldham, Agronomy; and met with Carroll E. Goering and J. Kent Mitchell, Agricultural Engineering.

A group of visitors from China, directors of soil and fertility institutes from five provinces and the senior agronomist in the ministry of agriculture, Beijing, toured the College of Agriculture on June 16. They were escorted by Harold Reetz, Potash and Phosphate Institute, Monticello, Illinois.

Howard Ray and **Susan Saunders**, Communications Technology Transfer in Agriculture project, Academy for Educational Development, Washington, D.C., met with faculty in INTERPAKS and the Office of Agricultural Communications and Extension Education during a visit to UIUC, June 18 to 20.

BARD Program

September 1, 1986, is the application deadline for the U.S.-Israeli Bilateral Agricultural Research and Development (BARD) fund program. Guidelines for proposals are available from the Agricultural Experiment Station (attn. Josephine Ferguson), 211 Mumford Hall, 333-0240.

Fulbright Fellowships

September 15, 1986, is the application deadline for 1987-1988 Fulbright fellowships for lecturing or research in the Middle East, Africa, Europe, and Asia. Further information concerning these fellowships is available from the Fellowship Office, 209 Coble Hall, 333-0036.

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Women in International Development

Frances M. Magrabi

The University of Illinois at Urbana-Champaign (UIUC) is actively concerned with issues relating to the role of women in developing countries. At UIUC, the Office of Women in International Development (WID) is the center for efforts to strengthen the capacity of women in developing countries to perform their roles as farmers and food processors, producers of goods and services, childbearers and mothers, educators of their families, and professional and community workers. UIUC's WID office was established in 1980 with funding from the university's Title XII strengthening grant and other sources. Currently some sixty associates, both faculty and students, are actively involved in WID activities.

Background. In 1973, congress amended the Foreign Assistance Act to direct development assistance to the poorest of the developing countries. The focus of the amendment is food and nutrition, education and human resource development, population, and health. The amendment also requires that U.S. bilateral assistance programs give particular attention to programs, projects, and activities that integrate women into the national economies. This policy amendment was sponsored by Senator Percy of Illinois, and is commonly referred to as the "Percy amendment."

A 1982 policy paper of the U.S. Agency for International Development (USAID) entitled "Women in Development" explains in detail the rationale behind AID's policy and the means to implement it. The paper points out the cross-sectional nature of the policy on women in development. It affects nearly every activity in USAID: agriculture, education, employment and income generation, energy and natural resource conservation, institutional infrastructure, nutrition, population and health, and water use management.

Together, these two documents emphasize the dual perspectives of women as agents and as beneficiaries, addressing both equity and efficiency concerns. Improving women's status (equity) assists the total development effort (efficiency).

Broad implications. The study of women in development is related to the broader issues of social and

economic development of the nonindustrialized or lesser developed areas of the world, while at the same time focusing on the household and family and on the issue of gender. WID issues include individual and institutional activities of a social, economic, and political nature.

Research areas. Research on women in international development is carried out in universities, government agencies, and policy-making bodies, and by development practitioners. As a new field of university research and instruction, it rapidly gained recognition as evidence emerged of the need to examine gender issues and to establish a multidisciplinary approach.

It is no longer necessary to justify examination of gender or the household unit as factors in development. Households and gender merit special focus in advanced societies and are even more important in traditional societies where the divisions of labor by sex are clear-cut and where the family or household is the prime locus of social and economic activity. The roles, contributions, and benefits, both of men and women, require study. Neglect of gender differences has created serious problems in national development plans.

According to studies of the role of women in developing countries, women are responsible for as much as 60 to 70 percent of food production. The kinds of crops grown may vary, depending on whether men or women do the farming. Other studies reveal that increases in women's income are more likely to result in the direct improvement of their families' well-being than are increases in men's incomes.

Research findings have resulted in increased attention by development agencies to the needs and contributions of women. These findings have also confirmed the view of the WID Office at UIUC that women are a vital human resource for improving the quality of life in developing countries.

WID at UIUC. A major accomplishment of the Office of Women in International Development since its creation in 1980 has been formation of an actively func-

tioning unit with a mission, plan of work, and set of bylaws. In addition, it has

- established a network for cooperation and a resource base, including library resources and human resources in the form of WID associates from many academic disciplines,
- attained a position of national leadership in the development of WID curricula, and
- established a focus for its research program, implemented several mechanisms for encouraging faculty and student research, and provided resources for the design of proposals for international projects.

Specific WID activities at the University of Illinois are diverse, ranging from participation of WID associates in projects in Pakistan, Rwanda, and Zambia to seminars on the Illinois campus by WID experts who have worked on development programs overseas.

In response to a growing interest on the part of UIUC students, the WID Office, with support from a grant from the U.S. Department of Education, developed three new courses and segments on women in development were introduced into six courses. The courses deal with such topics as nutritional problems of Third World women; the role of women in food production; appropriate technology for women in households and on farms; access to credit, education, and other resources; and the impact of development programs on women. We are considering the possibility of a WID option as a minor area for graduate study.

The WID Office also published seven curriculum guides and two bibliographies. More than five hundred copies have been sold to universities throughout the United States and in eleven foreign countries.

Project in India. In 1985, a team of six WID associates spent six weeks in India developing curriculum materials for teaching about rural family life in India. The UIUC team worked with a counterpart team from the Faculty of Home Science at M.S. University of Baroda. Members of the team also visited several other Indian institutes that conduct research or educational

programs for women and a number of urban and rural development projects that provide services to women.

I headed the team from UIUC. Other members included Navaz Bhavnagri, assistant project director and doctoral candidate in early childhood and elementary education; Barbara A. Yates, professor of comparative education and former director of the WID Office; Berenice Carroll, associate professor of political science and director of the Office of Women's Studies at UIUC; Sharon Y. Hart, assistant state coordinator, Expanded Food and Nutrition Education Program, University of Illinois Cooperative Extension Service; and Ellen Johnson, doctoral candidate in anthropology. The Baroda team was headed by Amita Verma, professor of child development, and included other faculty members in areas of home management, foods and nutrition, and education extension.

The team examined family structure, relationships, and division of labor; food production, storage, and preparation practices; and water supply and sanitation practices. We also studied acquisition and allocation of money and nonmoney resources; transportation; paid and unpaid work; education as a household resource; and time/task allocation in household and agricultural production.

One result of the project was a monograph and slide set entitled *Household Resources and Their Changing Relationships*, which was coauthored by the Illinois and Baroda teams. Sections of the monograph provide illustrative detail about selected rural households in villages near Baroda. The monograph also includes a brief discussion of the impact of development projects and studies on women and an overview of curricula in WID and women's studies in Indian institutions of higher education. The Office of International Agriculture, UIUC, is publishing the monograph. The project was supported by the Fulbright-Hays Group Study Abroad Program, administered by the U.S. Department of Education.

Frances M. Magrabi is professor of consumption economics and acting director of the Office of Women in International Development, UIUC

International Activities

Farewell and good luck to **Robert E. Brown**, Associate Director of International Programs and Studies, UIUC. Beginning in August, he will assume new duties as Dean of Adult and Continuing Education, American University in Cairo, Egypt. At UIUC, Dr. Brown also holds the positions of Director of International Faculty and Staff Affairs, Director of Overseas Projects and Foreign Visi-

tors, and Head of the International Institute of Computer Uses. From 1976 to 1979, Dr. Brown was director of the University of Illinois Programs in Iran and the Illinois Tehran Research Unit, Tehran, Iran. We will miss the professionalism and efficiency with which Bob Brown led many cooperative projects with the Office of International Agriculture.

Evelyn J. Weber, Agronomy, presented a poster session entitled "The Carotenoids and Tocols of Corn Grain" at a joint meeting of the American Oil Chemists' Society and the Japanese Oil Chemists' Society, Honolulu, Hawaii, May 14 to 18.

In late May, **William C. Wagner**, Veterinary Biosciences, traveled to Dublin, Ireland, as a member of the International Executive Committee for the Eleventh International Congress on Animal Reproduction. The committee reviewed plans for the congress, which will be held in Dublin in 1988. Dr. Wagner also met with colleagues in Mariensee and Giessen, Germany, to discuss collaborative research.

Joan Sozen, graduate student in Textiles, Apparel, and Interior Design, spent six weeks in Turkey during May and June, where she collected information for her thesis on the interior design of historic houses.

"Depressed Folate Transfer Across the Mammary Gland Secondary to Iron Deficiency in the Rat" was the title of the paper presented by **Deborah O'Connor**, Foods and Nutrition, at the Eighth International Symposium on Pteridines and Folic Acid Derivatives, McGill University, Montreal, Canada, June 15 to 20. Coauthors **Mary Frances Picciano** and **Adria R. Sherman**, Foods and Nutrition, also participated in the conference.

Johannes M. J. De Wet, Agronomy, left UIUC in June to spend one year as director of the cereals program at the International Crops Research Institute for the Semi-arid Tropics (ICRISAT), India.

Pamela Woodard, a recent graduate in Extension Education, is serving as a rural development extension volunteer with the U.S. Peace Corps in Tunisia. Her address is B.P. 96, 1002 Tunis, Belvedere, Tunisia.

Ram J. Singh, Agronomy, traveled to the International Rice Research Institute (IRRI), Los Baños, Philippines, June 6 to 29, to finalize a uniform numbering system for rice chromosomes.

Burton E. Swanson, INTERPAKS and Agricultural Education, was a guest lecturer at an extension course taught at the International Agricultural Centre, Wageningen, Netherlands, June 27 to July 12. On this trip, he also presented a seminar at the Agricultural Extension and Rural Development Centre (AERDC) and attended an editorial board meeting of the Journal of Agricultural Administration and Extension, University of Reading, England. Dr. Swanson is the North American editor of the journal.

The Sixth International Farm Management Conference, Minneapolis-St. Paul, Minnesota, June 30 to July 3, was attended by **Richard P. Kesler**, **Fay M. Sims**, and **Donald G. Smith**, Agricultural Economics.

Robert Dantzer, visiting professor in Animal Sciences, was in Europe the first week of July. He organized a symposium on psychoneuroendocrinology of social behavior at the biennial meeting of the International Society of Psychoneuroendocrinology, Bergen, Norway, from June 30 to July 4. He also presented papers on the conditioning of immune functions (coauthored by Keith W. Kelley, Animal Sciences), physiological correlates of social behavior, and behavior effects of vasopressin. At the First Meeting of the European Society of Behavioral Pharmacology, Antwerp, Belgium, July 4 to 7, Dr. Dantzer presented a paper on the stimulus properties of vasopressin.

Dr. Dantzer also presented an invited paper entitled "Frustration, Aggression, and Drugs" at the Seventh Biennial World Meeting of the International Society for Research on Aggression, held at Northwestern University, Chicago, Illinois, July 24 to 27.

Attending the AUSUDIAP (Association of U.S. University Directors of International Agricultural Programs) annual meetings, July 8 to 10, were **John A. Becker**, **Harold E. Kauffman**, **Thomas A. McCowen**, **John W. Santas**, and **William N. Thompson**, Office of International Agriculture. The meetings were held in Ft. Collins, Colorado.

John L. Woods, INTERPAKS, visited Washington, D.C., July 14 to 16, for meetings with USAID and World Bank personnel. He discussed possible use of the INTERPAKS case study indicators to help other organizations address planning needs and operational problems related to development, transfer, and use of technology.

UIUC was well represented at the Third World Congress on Genetics Applied to Livestock Production, Lincoln, Nebraska, July 17 to 22. Participants from Animal Sciences included **Roderic M. Bunge**, **Claudio De Matos**, **Jean-Louis Foully**, **Daniel Gianola**, **Charles R. Henderson**, **David G. McLaren**, and **David L. Thomas**.

John B. Claar, INTERPAKS, is spending five weeks in Panama in July and August as a member of a team formulating a project proposal for USAID.

Two faculty members in Agricultural Entomology and the Economic Entomology Section of the Illinois Natural History Survey will attend the International Colloquium on Invertebrate Pathology, Veldhoven, Netherlands, August 18 to 22. **David W. Onstad** will present an invited

paper entitled "Simulation Model of the Epizootiology of a Microsporidium Infecting an Insect." Based on work done at the National Center for Supercomputing Applications, the paper is coauthored by William G. Ruesink, Agricultural Entomology. **Joseph V. Maddox** will present three invited papers: The Occurrence of *Erynia radicans* in an Illinois *Empoasca fabae* field population (coauthored by M. G. McGuire, M. J. Morris, and E. J. Armbrust); The Current Status of the Use of Microsporidia as Biological Control Agents; and Possibilities for Manipulating Epizootics Caused by Protozoa: A Representative Case History of *Nosema pyrausta*.

Michael E. Irwin, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey, will be in Europe for three weeks in August and September. Dr. Irwin will present a paper at the First International Congress of Dipterology, August 17 to 24, Budapest, Hungary, examine Diptera specimens at the Museum of Natural History, Vienna, Austria, and present two seminars at the Czechoslovakian Academy of Sciences, Prague.

Visiting Researchers

Farooqe Azam, Nuclear Institute for Agriculture and Biology, Faisalabad, Pakistan, is a visiting scholar working on soil nitrogen transformation with Richard L. Mulvaney and Frank J. Stevenson, Agronomy. Sponsored by the National Science Foundation-Pakistan Science Exchange Program, Dr. Azam will be at UIUC for nine months.

Klaus-Viktor Brenner, University of Göttingen, Germany, arrived at UIUC in early July to work for one year with Peter J. Bechtel, Animal Sciences, and William C. Wagner, Veterinary Biosciences. Dr. Brenner, who is here on a Max Kade Foundation fellowship, is studying growth hormone and somatomedins in swine.

David Galloway, School of Veterinary Science, University of Melbourne, Australia, is a visiting professor for seven months in Veterinary Clinical Medicine and Veterinary Biosciences. Sponsored by a George A. Miller fellowship, Dr. Galloway is working on *in vitro* fertilization as a method to evaluate the fertilizing capacity of bull spermatazoa.

Alphons Hoitink, a student at the Agricultural University, Wageningen, Netherlands, is studying applied ecology in the laboratory of Stanley E. Curtis, Animal Sciences, June 15 to September 15.

Mohamed Mehaia, College of Agriculture, King Saud University, Riyadh, Saudi Arabia, is working from May to September with Munir Cheryan, Food Science, on the design of bioreactors and continuous fermentation of food industry wastes into higher valued products.

Ignacy Misztal, Warsaw Agricultural University, Poland, is working with Daniel Gianola, Animal Sciences, until July 1987.

Ibrahim Mujić, Vice President for Research, Agrokomerc, Velika Kalduša, Yugoslavia, arrived in June to spend three months working with Edward G. Perkins, Food Science, on the characterization of alfalfa leaf proteins.

Ji You-Cheng, North Vehicle Research Institute, Beijing, China, will arrive at UIUC in mid-August to spend one year working with Carroll E. Goering, Agricultural Engineering, on alternative fuels.

Visitors Coming to Campus

A. Alam, delegation leader and Assistant Director of Engineering, Indian Council for Agricultural Research, **Nawab Ali**, Director of Soybean Processing at the Central Institute for Agricultural Engineering in Bhopal, **B. P. N. Singh**, Director of Soybean Processing Research at G. B. Pant Agricultural University in Pantnagar, and **P. S. Bhatnagar**, Soybean Project Coordinator at G. B. Pant Agricultural University, Pantnagar, India, will visit UIUC from September 1 to 3 for a program on soybean processing for food uses. To meet with these visitors call or write John W. Santas, International Agriculture, 113 Mumford Hall, 1301 West Gregory Drive, Urbana, IL 61801: 217-333-3638.

Visitors Recently on Campus

Amita Verma and **Rachel George**, Home Science Faculty, M.S. University of Baroda, India, met with associates in the Office of Women in International Development (WID) during a visit to UIUC, June 12 to 15. They discussed a joint 1985 project sponsored by Fulbright-Hays and possible future collaboration.

The Assistant Director of the Department of Agriculture and Water Supply, Directorate of Agricultural Production Economics, South Africa, **A. de K. Marias**, met with faculty in Agricultural Economics and visited farms in the area on June 25 and 26. His schedule at UIUC

was arranged by Richard P. Kesler, Agricultural Economics.

On June 26, **Hideo Fujii**, Manager, Feed Grain Section, Oil and Cereals Department, Nissho Iwai Corporation, Tokyo, Japan; and **Masaji Shima**, Director, **Kiyoharu Imamura**, Production Manager, and **Mitsuo Imamura**, Corn Starch Department, Hohnen Oil Co., Tokyo, Japan, met with Gene C. Shove, Agricultural Engineering. They examined the problems associated with delivering high quality corn to Japan. The Japanese group was escorted by Richard I. Berlin, Specialty Grains, Inc., Bloomington, Illinois.

Frans Traa, Vice-Principal of the State Agricultural College, Groningen, Netherlands, visited with William George, Resident Instruction, and faculty members in Agricultural Economics, Agricultural Engineering, and Animal Sciences, July 8.

Arnold T. Tschantz, Director of Development Programs, AVRDC (Asian Vegetable Research and Development Center), Taiwan, visited UIUC from July 8 to 11. He met with Theodore Hymowitz, Agronomy, and Richard E. Ford and James B. Sinclair, Plant Pathology, to discuss a cooperative project on identifying rust resistance in wild *Glycine* species.

Jean Martin and **Wilhan Viviers**, KWV Cooperative Wine Growers, Paarl, South Africa, and **Brian Sugden** and **Neil Frean**, South African Cane Growers Association, Durban, spent July 10 and 11 in the Department of Agricultural Economics. In a program arranged by Allan G. Mueller, Agricultural Economics emeritus, they learned about financial records and financial management programs for farmers.

Larry Martin, Head, Department of Agricultural Economics, University of Guelph, Ontario, Canada, visited faculty in Agricultural Economics and met with John L. Woods, INTERPAKS, July 10 and 11. Dr. Martin received a Ph.D. degree from UIUC in 1970 after conducting dissertation research in Pantnagar, India.

I. H. Usmani, Secretary General, International Foundation for New and Emerging Sciences and Technologies (NEST), London, England, discussed collaboration on soybean research with INTSOY staff, July 11 and 12.

Sponsored by the Protein Research Center, Texas A&M University, **Fu-Kuang Liu**, Wuxi Light Industry Institute, Wuxi, China, met with faculty in Food Science and INTSOY from July 13 to 16 to view soybean research and educational programs. His schedule at UIUC was arranged by Lun-Shin Wei, Food Science.

Günther Schmitt, professor of agricultural economics, University of Göttingen, Germany, presented a seminar on the agricultural policy of the European Economic Community and met with staff in Agricultural Economics, July 14 and 15.

Sponsored by FAO, **Cláudio Nápolis Costa**, National Center for Swine and Poultry Research, EMBRAPA, Concórdia, Santa Catarina, Brazil, was on campus July 14 and 15 for discussions on swine breeding with David G. McLaren, Animal Sciences.

David J. Miller, Projet de Recherche Agronomique Appliquee et Vulgarisation, Kinshasa, Zaire, met with INTERPAKS and extension staff on July 14.

Peter A. Burnett, CIMMYT (Centro Internacional de Mejoramiento de Maíz y Trigo), Mexico, visited the College of Agriculture on July 14 and 15. Dr. Burnett discussed research on barley yellow dwarf virus with Cleora J. D'Arcy and Henryk Jedlinski, Plant Pathology, and met with Robert Raab, INTERPAKS.

Ghazi Kaanan, Director, Jordan Valley Agricultural Directorate, Deir Alla, Jordan, met with Violet M. Malone, Raymond A. Woodis, and other staff in Agricultural Communications and Extension Education, INTERPAKS staff, Horticulture and Agricultural Economics faculty, Edgar County and Will County extension advisers, and Cooperative Extension administrators, July 14 to 17.

R. L. Baker, Ruakura Agricultural Research Centre, Ministry of Agriculture and Fisheries, Hamilton, New Zealand, presented a seminar and met with faculty in Animal Sciences on July 14. Dr. Baker was a visiting professor at UIUC in 1981-1982.

Moenaf Ramid Regar, Director of the Project Implementation Unit, MUCIA-University of North Sumatra Project, Medan, Indonesia, visited UIUC on July 17. He met with faculty in International Programs and Studies, Office of International Agriculture, College of Commerce and Business Administration, College of Engineering, and the University Library.

A group of nine **young farmers from Luxembourg** were on campus July 17 to 19, participants in the 4-H international exchange program. They met with Ann Rund and other members of the 4-H staff, and toured the dairy automation facility and others parts of the college before going to stay with 4-H host families throughout the state.

International participants from 31 countries in the USDA/USAID **Seed Improvement Course** spent the week of July 21 at UIUC. They toured research plots and laboratories, listened to presentations by faculty in Agronomy and Plant Pathology, and visited farms and agribusinesses around the state.

Rodrigo Gamez, Institute of Cell and Molecular Biology, University of Costa Rica, San Jose, met with co-investigators on a project studying plant virus/mycoplasma complexes in maize/bean cropping systems, July 23 to 25. UIUC participants in the project include Michael E. Irwin, William G. Ruesink, and David J. Voegtlin, Agricultural Entomology and Economic Entomology Section of the Illinois Natural History Survey, L. Keith Hendrie, Illinois State Water Survey, and Harry Bottenberg, graduate student in entomology. The project is sponsored by USAID.

Carlos Mario Rodriguez, Institute of Cell and Molecular Biology, University of Costa Rica, San Jose, spent July 15 to 30 learning aphid identification from David J. Voegtlin as part of project.

Zahid Zaheer, Deputy Chief, Human Resources and Training, USAID, Islamabad, Pakistan, met with stu-

dents studying under the TIPAN (Transformation and Integration of the Provincial Agricultural Network) project at UIUC, July 30 and 31.

Have You Met IRIS?

IRIS, the Illinois Researcher Information System, is a computerized data base with citations on organizations that provide support for research and scholarly activities. Developed at UIUC in 1975, IRIS contains more than 4,500 listings of federal agencies, private and corporate foundations, and other organizations. IRIS quickly identifies possible sponsors for research, teaching, travel, equipment, advanced study, and other activities. An IRIS search can be run by discipline; entries are concise and up-to-date. The service is available free of charge to faculty, staff, and graduate students. Further information, demonstrations, and copies of the IRIS User Guide are available from the Campus-Wide Research Services Office, 128 Observatory, 901 South Mathews Avenue, Urbana, IL 61801; telephone 217-333-0284.

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INTERNATIONAL AGRICULTURE NEWSLETTER

College of Agriculture and College of Veterinary Medicine, University of Illinois at Urbana-Champaign
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September 1986, No. 100

INTSOY Achievements Benefit Illinois

INTSOY, the International Soybean Program, seeks to improve human nutrition around the world through the use of soybeans, a legume rich in protein and calories. Since its establishment at the University of Illinois at Urbana-Champaign (UIUC) in 1973, INTSOY has worked extensively on germplasm exchange, disease and insect control, processing and use, and training and education. This work has benefited Illinois citizens as well as people in the less developed countries of the world.

Germplasm exchange. Illinois farmers benefit from the introduction of new germplasm into the United States by increased and stabilized soybean yields. From 1973 to 1985, INTSOY served as a clearinghouse for a worldwide system to exchange soybean germplasm. INTSOY agronomists and plant breeders have

- coordinated a cooperative network of approximately 1,000 soybean scientists at 238 institutions in 132 countries to improve the genetic potential of soybeans.
- analyzed and published the results of 1,077 soybean cultivar trials conducted in more than 100 countries around the world.
- collected, evaluated, and distributed approximately 2,000 soybean cultivars and breeding lines from 34 countries, adding the most valuable cultivars to the USDA germplasm collection.
- advised scientists overseas on soybean production, a service that often resulted in sales of seed and equipment by U.S. companies.

Disease and insect control. Agricultural production in the United States is constantly threatened by the introduction of diseases, insects, and pests from outside the country. Countries in Africa, Asia, and Latin America have recorded crop losses of 100 percent from diseases and insects that are not currently present in the United States. It is essential that U.S. scientists study these problems where they occur to understand these future threats and protect domestic production. INTSOY entomologists and plant pathologists have

- conducted extensive research on soybean mosaic virus (SMV) and its spread by aphids. Research results include a computer model that predicts yield loss and seed transmission rates. SMV is a major problem in Asia.
- developed a quick and easy method to evaluate soybean seedlings for resistance to the fungus that causes anthracnose, a disease that is already present in the United States.
- screened a major portion of the soybean germplasm collection to find cultivars with resistance or tolerance to anthracnose.
- collaborated with scientists in African and Asian countries in studying red leaf blotch and soybean rust. The research included evaluating germplasm and studying the biology, causes, and control of the diseases.
- established computerized data banks that identify and describe soybean insect pests and contain references to the literature of soybean arthropods.

Processing and use. Innovative soybean processing and use play an important role in expanding worldwide interest in soyfood products, especially during a time of shrinking export markets for U.S. producers. Since 1970, researchers in the Department of Food Science at UIUC, in collaboration with INTSOY, have

- developed techniques for processing whole soybeans into tasty, nutritious foods.
- developed a range of inexpensive prototype soyfood products that could be marketed both in the United States and overseas. Research is currently under way on products such as soy milk, soy ice cream, soy yogurt, breakfast foods, soups, enrichment additives, and granola bars.
- completed preliminary studies on use of immature green soybeans as a high protein green vegetable. This value-added product has great potential for domestic and certain foreign markets.
- developed a low-cost technique that yields both soybean oil and meal suitable for human consumption.

Training and education. INTSOY sponsors conferences, workshops, and training programs to provide a forum for the international exchange of ideas and information. The conferences stimulate interest in the use of soybeans as a food source and enlarge the body of knowledge available to soybean researchers, educators, producers, and consumers. The educational and training programs also help maintain UIUC's reputation as a world-class educational, research, and service institution. Since 1973, INTSOY has

- cosponsored international research conferences in Colombia, Egypt, Ethiopia, Indonesia, Puerto Rico, Sri Lanka, Thailand, and the United States.
- helped establish national soybean programs in India, Peru, and Sri Lanka. Since the implementation of these programs, all three of these lesser developed countries have increased production and imports of soybeans and soy products.
- conducted a course entitled Technical and Economic Aspects of Soybean Production for more than 100 participants from 46 less developed countries. The course was taught nine times between 1975 and 1984.
- conducted another course entitled Soybean Processing for Food Use nine times since 1975. Nearly 90 participants from 38 countries attended these sessions.
- hosted more than 1,000 visitors, some sponsored by the American Soybean Association, from around the world.
- provided the opportunity for professors and graduate students at UIUC to conduct research in less developed countries.
- published a series of monographs, currently numbering 29, that includes conference and workshop proceedings, reports on international cultivar trials, economic studies, soyfood research, bibliographies on pests and diseases, and germplasm listings.

International agricultural development programs benefit people here and abroad. By helping others we also help ourselves.

International Activities

Jack M. Widholm, Agronomy, attended the U.S./Japan Cooperative Science Project meeting, June 12 to 17, Honolulu, Hawaii.

Daniel Gianola, Animal Science, gave an invited paper, "Bayes Theorem and Variance Components" at the University of Buenos Aires, Argentina, June 23 and 24.

Richard P. Kesler, **Fay M. Sims**, and **Donald G. Smith**, Agricultural Economics, attended the Sixth International Farm Management Conference in Minneapolis, Minnesota, June 30 to July 3.

Peter J. Felsburg and **Harm Hogen Esch**, Veterinary Pathobiology, presented invited papers at the International Congress on Mucosal Immunity, Niagara Fall, New York, June 29 to July 3. Dr. Felsburg's paper was entitled "Clinical, Immunologic, and Epidemiologic Characteristics of canine Selective IgA Deficiency" and Dr. Esch's paper was entitled "Histologic, Immunohistochemical, and electron Microscopic Characterization of Canine Peyer's Patches."

Congratulations to **Margaret R. Grossman**, Agricultural Economics, who received a Fulbright award to conduct research in England, Germany, and the Netherlands on farmland preservation, August 1986 through June 1987.

From September 8 to 12, Dr. Grossman will present an invited paper entitled "Federated States" at the Euro-American Agricultural Law Symposium, Plymouth, England.

James L. Robinson, Animal Sciences, will begin a year's sabbatical leave on September 1. He will screen Dutch cattle for inborn errors of nucleotide metabolism, including UMP synthase deficiency. UMP synthase deficiency is a disorder Dr. Robinson identified in Holstein cattle in the United States. Dr. Robinson's address is c/o Dr. J. H. Veerkamp, University of Nijmegen, Department of Biochemistry, P.O. Box 9101, 6500HB Nijmegen, Netherlands.

Michael Grossman, Animal Sciences, will be on sabbatical leave for the 1986/1987 year in the Department of Animal Breeding, Agricultural University, Wageningen, Netherlands. Dr. Grossman received a senior research fellowship to conduct research on production curves in livestock.

Marlowe D. Thorne, Agronomy emeritus, was a member of an external evaluation panel for a field review of the Soil Management Collaborative Research Support Program (TropSoils) in Niger, July 14 to 21.

Peg Hoffman, Regional Director, Cooperative Extension Service, was a delegate to the International Home Economics meeting in Graz, Austria, July 20 to 25.

During July, **Charles A. Smyth**, Agronomy, attended the Thirteenth International Biometric Conference held at the University of Washington.

Gregory R. Noel, Plant Pathology and USDA, was in China for four weeks in July and August, where he consulted on soybean nematodes at the Soybean Research Institute, Harbin, Heilongjiang, and collected soil samples and seeds.

Plant Pathology faculty and students attending the Third International Symposium on Molecular Genetics of Plant Microbe Interactions, Montreal, Canada, July 26 to 30, included **Karen Engst**, **Ingyu Hwang**, **Yang Kyo Park**, and **Paul D. Shaw**. Dr. Shaw and Mr. Park presented a poster session entitled "Cloning and Analysis of Genes Involved in Pathogenicity of *Pseudomonas syringae* pv. *tabaci* BR2."

Theodore R. Peck, Agronomy, participated in the Thirteenth Congress of the International Society of Soil Science, Hamburg, Germany, in August.

Angus G. Hepburn, Agronomy, discussed collaborative projects and current research with scientists at the John Innes Institute, Norwich, England, and the University of Edinburgh, Scotland, during the first two weeks of August. He then presented data on DNA methylation in plants at the Symposium on Plant Chromatin and Gene Expression, University of Frankfurt, Germany, in the latter part of August.

Agronomy faculty and students attending the Sixth International Congress of Plant Tissue and Cell Culture, Minneapolis, Minnesota, August 3 to 8, included, **L. Curt Blair**, **Usha B. Barwale**, **Liang-Jwu Chen**, **David R. Duncan**, **Susan E. Schechter**, **Roy W. Stahlhut**, **Jack M. Widholm**, and **Mark E. Williams**.

Bruria Heuer, **Paul A. Kenigsberg**, **William L. Ogren**, **Emil M. Orozco**, and **Archie R. Portis**, Agronomy, attended the Seventh International Congress on Photosynthesis, Providence, Rhode Island, in August.

Johannes M. J. DeWet, Agronomy, visited Liaoning, China, from August 10 to September 1 to attend a sorghum symposium and collect millet germplasm.

John J. Nicholaides, III, OIA, made an invited presentation to a BIFAD/AID symposium on Memoranda of Understanding/Program Support Grants, August 4, Minneapolis, Minnesota.

Preliminary results of safety tests on a fungus that kills mosquitoes were presented by **Joel Siegel**, Veterinary Pathobiology, at the Fourth International Colloquium of the Society for Invertebrate Pathology, August 16 to 23, Eindhoven, Netherlands.

From August 11 to 20, **Robert J. Eilers**, graduate student in Agronomy, participated in the Twenty-Second International Horticultural Congress, Davis, California. Mr. Eilers gave a poster session and presented a paper.

As part of a seminar on Small Countries in the World Economy, **Stephen C. Schmidt**, Agricultural Economics, presented a paper entitled "International Agricultural Trade," Budapest, Hungary, August 23. While in Europe, Dr. Schmidt will meet with researchers at the International Institute for Applied Systems Analysis, Laxenburg, Austria, and the Austrian Institute of East and South East European Studies, Vienna, Austria.

Janice M. Bahr, Animal Sciences, attended the Laurentian Hormone Conference, Montebello, Quebec, Canada, August 24 to 29.

John L. Woods, INTERPAKS, was in Washington, D.C. August 19 to 22, to attend a meeting at the Academy for Educational Development (AED). The meeting is part of a USAID-funded Communication for Technology Transfer in Agriculture (CTTA) project.

A report on a new test for the detection of pregnancy in mares was presented at the Fourth International Symposium on Equine Reproduction, Calgary, Canada, August 25 to 29, by **Theodore F. Lock**, Veterinary Clinical Medicine. The paper was entitled "Enzyme Immunoassay for the Qualitative Detection of Equine Chorionic Gonadotropin."

Harry Bottenberg, graduate student in Entomology, left UIUC in August to spend one year in Costa Rica conducting research on aphid movement in maize/bean cropping systems. The work is part of a USAID-sponsored project in Agricultural Entomology on plant virus/mycoplasma complexes in maize/bean cropping systems.

Erwin Small, associate dean in the College of Veterinary Medicine, will lead a group from the Society for International Veterinary Symposia to Budapest, Hungary, and Zagreb, Yugoslavia, for meetings from September 5 to 19.

Donnell R. Hunt, Agricultural Engineering, will spend six weeks in August and September in Australia lecturing on mechanization problems in agriculture. He will also give the keynote speech to the National Agricultural Engineering Conference, Roseworthy College, South Australia. His trip is sponsored by the Institute of Mechanical Engineers.

Arthur J. Muehling, Agricultural Engineering, will travel to Rennes, France, September 7 to 12 to attend the International Society of Agricultural Engineers Section 2 Seminar. He will then go to Leipzig, East Germany to present seminars of swine housing systems at Karl-Marx University.

On September 11, **Mary Frances Picciano**, Foods and Nutrition, will present the plenary lecture entitled "Nutrient Utilization in Term Infants" at the International Conference on Effects of Human Milk on the Recipient Infant, Konstanz, Germany. **Anna M. Smith**, Foods and Nutrition, will also present a paper at the conference.

Munir Cheryan, Food Science, will participate in World Congress III of Chemical Engineering, Tokyo, Japan, September 21 to 26. He will present two papers: one on bioprocessing work related to harvesting of microbial cells and design of bioreactors, and the other on the mechanism of transport through reverse osmosis synthetic membranes. In addition, he will co-chair the technical sessions on bioengineering and bioreactor design.

Dr. Cheryan will then attend the Twenty-Second International Dairy Congress, The Hague, Netherlands, September 29 to October 3, where he will present a paper on research on membrane separations. Dr. Cheryan will also represent the American Dairy Science Association on the U.S. National Committee to the International Dairy Federation, which sponsors the congress every four years.

Visiting Researchers

Hiroaki Kato, Tokyo Medical and Dental University, Japan, arrived at UIUC on July 24 to spend one year in the laboratory of Toshiro Nishida. Mr. Kato will conduct research on lipid and lipoprotein metabolism.

Professor Delegershang, Department of Agricultural Engineering, Inner Mongolia Agriculture and Animal Husbandry College of Hohhot, Inner Mongolia, People's Republic of China, arrived at UIUC in early August. He will be a visiting scientist for a year in the Department of Agricultural Engineering working with Leslie L. Christianson.

Yehzekel Cohen, Volcani Institute, Bet Dagan, Israel, arrived in August to work for one year on water relations in plants with John D. Hesketh, Agronomy and USDA.

Sotan Im, Biometrics Laboratory, INRA, Toulouse, France will be a visiting scholar in Animal Science. Dr. Im's research is on multivariate analysis with emphasis on parameter estimation and prediction of breeding value.

Jaw-Shu Hsieh, Department of Agronomy, National Taiwan University, Taipei, Taiwan, is conducting research on plant breeding and genetics for one year in the laboratories of Theodore Hymowitz and Henry H. Hadley.

Visitors Recently on Campus

Tahir Rehman, Department of Agriculture and Horticulture, University of Reading, England, visited UIUC July 7 and 8. Dr. Rehman discussed the use of microcomputers in education and mathematical programming with faculty members of the Department of Agricultural Economics and the Agricultural Experiment Station.

Masakazu Nagaki, Obihiro University of Hokkaido, Japan, visited the College of Agriculture July 9 to 11. His research interests are in application of expert systems to agricultural production.

Raul Machado Neto, University of Sao Paulo, Brazil, spent July 22 to 25 at UIUC meeting with faculty and administrators in the College of Agriculture. They discussed cooperative research projects that could be implemented under the Memorandum of Understanding between UIUC's College of Agriculture and the Faculty of Agriculture at the University of Sao Paulo. His trip was sponsored by the Partners of the Americas. Dr. Machado completed his Ph.D. in Dairy Science at UIUC in 1980.

Former faculty member in Agronomy **John W. Pendleton**, currently deputy director of the International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria, visited the Department of Agronomy in July.

Fifty students from Nihon University, Chiba, Japan, toured the dairy barns and the College of Veterinary Medicine on July 29. The tour was part of a program arranged by UIUC's Intensive English Institute, where the students are studying for one month this summer.

On July 28 and 29, **Jan Stofkoper**, Regional Director for Egypt, Sudan, and Turkey at Louis Berger International, met with faculty in international agriculture to explore possibilities of working together on projects in Sudan and other countries.

Diego Marulanda, John Deere distributor in Bogota, Colombia, and **Guillermo Zapata Mejia**, agronomist from Pereira, Colombia, discussed ISVEX data with Danny R. Erickson, International Agriculture, on-farm soybean oil extraction with Alvin I. Nelson and Wilmot Wijeratne, Food Science, and soybean production practices with Gary E. Pepper, Agronomy, on July 30. They were accompanied by **Robert E. Williamson**, John Deere Intercontinental, Moline, Illinois.

Hisatoshi Omura, staff leader of 60 Japanese 4-H exchangees in Illinois, was on campus July 25 to August 20. He visited with Ann Rund, 4-H specialist and toured the campus and Central Illinois.

Herman J. Finkel, Faculty of Agricultural Engineering, Israel Institute of Technology, visited UIUC on August 6. Professor Finkel, who graduated from UIUC in 1940, is studying the effect of music on engineers.

Jack Loneragan, Murdoch University, Australia, presented a seminar and discussed mineral nutrition with faculty and students during a visit to the Department of Agronomy on August 11 and 12. Dr. Loneragan's schedule was arranged by Richard H. Hageman.

Andrew K. Hatubotu, Information Officer, Zambia Ministry of Agriculture and Water Development, visited UIUC August 17 to 19. Mr. Hatubotu discussed communications strategies with Delbert T. Dahl, Agricultural Communications and Robert J. Wynstra, INTSOY. Dr. Dahl accompanied him to the Will County Extension Office to meet with former ZAMARE team member Ronald G. Dedert.

International 4-H exchangee, **Andri Suratmin**, Lampung University, Indonesia, was at UIUC for 4-H orientation with Mary K. Munson. Ms. Suratmin will stay with families in Illinois to observe 4-H youth development programs and agricultural practices.

British Council Academic Travel Grants

This program facilitates short-term visits of staff between universities in Britain and the United States. The purpose is to promote direct contact between departments and institutions with common scientific or academic interests, and to encourage the development of longer term collaboration that benefits both institutions. Grants may be given for visits that form an early stage of a program of institutional collaboration in research, publication, or teaching. There is no application dead-

line. Additional information is available from the Campus-Wide Research Services Office, 128 Observatory, 901 South Mathews Avenue, Urbana, IL 61801; telephone 217-333-0284.

International Seminars

These seminars are open to the university community and the general public.

September 10 Current Developments in International Agriculture — John J. Nicholaides, III, Director and Associate Dean, International Agriculture. 4:00 p.m., 426 Mumford Hall

*International Agriculture seminar

September 17 Gender Equity and Efficiency in AID's Agricultural Projects: Evaluating a Decade of Effort — Kathleen Cloud, INTERPAKS and Office of Women in International Development. 4:00 p.m., 426 Mumford Hall

*International Agriculture seminar

September 24 Noneconomic Factors Influencing Farmers' Decision Making in Zambia — Serigne N'diaye, Agricultural Economics. 4:00 p.m., 426 Mumford Hall

*International Agriculture seminar

October 16 World Food Day. Check next month's *International Agriculture Newsletter* for a list of activities.

Language Classes for Agriculture

French for Agriculture and Rural Development is for faculty, staff, and students with a basic knowledge of French who wish to maintain and improve their language skills. The class will meet for 1.5 hours per week beginning in mid-October.

Two levels of **Spanish for Agriculturalists** are being offered for faculty and staff. Classes will meet beginning in mid-October.

Low intermediate, which will meet for 1.5 hours per week, is for those who have completed the equivalent of the intersession class.

Intermediate is designed for people with a basic knowledge of Spanish who wish to maintain and improve their language skills. The class will meet for 2 hours per week. Contact Bonnie J. Irwin for meeting times and places, 333-5835.

World Food Day

Members of the university and community will observe World Food Day October 16. This year's theme is Hunger Amidst Plenty. Activities will include seminars, a nationally televised conference, and a colloquium about international agriculture and world food issues.

Teachers who are interested in having their classes participate in this event can call Charles E. Olson, Resident Instruction, 333-3380. Fact sheets, help on obtaining guest lecturers, and information on the three hour teleconference can be provided.

Workshop for International Women

On September 27, a workshop for international women on work and educational opportunities in Urbana-Champaign will be held in room 407 Levis Faculty Center, 919 West Illinois Street, Urbana, from 8:30 a.m. to 12:30 p.m. Entitled "All You Ever Wanted to Know About Working and Learning in Champaign-Urbana — For Free, For Pay, For Fun," the workshop is sponsored by several campus offices and committees. There will be a free breakfast and babysitting at the Wesley Foundation. For more information or to register call the Office of International Student Affairs, 333-1303.

MUCIA Travel Funds

October 1, 1986, is the application deadline for international travel funds available to University of Illinois faculty and staff through MUCIA (Midwest Universities Consortium for International Activities) and the Office of the Vice President for Academic Affairs. Grants of up to \$1,000 are available to support international travel which will result in the development or enhancement of international programs at the University of Illinois. Matching funds must be secured from institutional sources. The next application opportunity is February 1, 1987. Guidelines and request forms are available from T. John Kim, MUCIA Liaison Officer, 311 Coble Hall, 801 South Wright Street, Champaign, IL 61820, telephone (217) 333-1993.

Heinz Endowment Research Grants

The Howard Heinz Endowment is accepting applications for grants for research on current issues in Latin American economics, politics, or social development. Applicants must have a Ph.D. or equivalent and be affiliated with a scholarly institution. For specific information on research topics and application procedures write to the Howard Heinz Endowment, 301 Fifth Avenue, Pittsburgh, PA 15222.

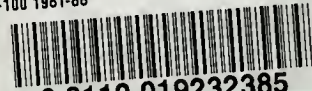
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